**LEA Commission Number:** 

**Drilling Contractor:** 

**Drilling Method:** 

Location: P&W East Hartford

1/23/1998

Loureiro Engineering Associates

Direct Push

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson

Sampling Method: Macro Core Drill Rig: Geoprobe 5400
Groundwater Observation Surface Elevation:

Groundwater Observation Surface Elevation: 0.00

Depth: 3.5 at: : , Northing: 0.0

Depth: at: Hours & Easting: 0.0

Depth	Sample Information		ion	Soil Description	
	Sample No.	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0		92		0" - 12" topsoil 12" - 24" brown fine SAND, trace (+) medium SAND, moist, loose, poorly sorted 24" - 42" dark brown fine SAND, trace (+) SILT, moist, dense, red staining at 3' 42" - 44" reddish brown finine SAND, some () medium SAND, moist to wet, loose, poorly sorted	

Comments:

Project:

RCRA REC DS. CENTER

CILITY Prairies

D. NO.CTD 991612081

FILE LOC. R-9

CTHER RDMS# 1/27

Printed on 03/03/98

**NA-SB-89** 

**Start Date** 1/23/1998

Page 1 of 1

Boring ID

**NA-SB-90** 

**LEA Commission Number:** 

Client:

Project:

Location: P&W East Hartford

Loureiro Engineering Associates

**Drilling Method:** Direct Push

Sampling Method:

**Groundwater Observation** 

**Drilling Contractor:** 

Depth: 0.8 Depth:

at: at:

Масто Соге

Hours &

1/23/1998 Logged by: Boris Tomicic

**End Date** 

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00 Northing: 0.0 Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0 , , , , , , , , , , , , , , , , , , ,		92		0" - 14" topsoil 14" - 32" dark brown to black fine SAND, trace (-) medium SAND, slightly moist, dense, pebbles 32" - 44" reddish brown fine SAND, some (+) medium SAND, moist to wet, loose, poorly sorted	

Comments:

**NA-SB-91** 

Page 2

of **Boring ID** 

1

Project: **LEA Commission Number:** 

Client:

Location: P&W East Hartford **Drilling Contractor:** Loureiro Engineering Associates

**Drilling Method:** 

Direct Push Sampling Method: Macro Core

**Groundwater Observation** Depth: 0.8

Depth:

at: : at:

Hours &

**Start Date** 1/23/1998

**End Date** 

**NA-SB-91** 

1/23/1998

Logged by: Boris Tomicic

**Drilling Foreman:** Dave Brisson Drill Rig: Geoprobe 5400

Surface Elevation:

0.00 Northing: 0.0

Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0 ,		92		0" - 18" topsoil 18" - 7" grey fine SAND, trace (-) SILT, moist, dense ? - 44" fine SAND, some (-) medium SAND, moist to wet, loose, poorly sorted	

Page 3 **Start Date** 

of

1

Boring ID

**LEA Commission Number:** 

1/23/1998 **End Date** 

1/23/1998

**NA-SB-92** 

Client:

Project:

Location: P&W East Hartford

Loureiro Engineerin

Logged by: Boris Tomicic

**Drilling Contractor:** Drilling Method:

Direct Push

Drilling Foreman: Dave Brisson

Sampling Method: Macro Core Drill Rig: Geoprobe 5400

**Groundwater Observation** 0.8

**Surface Elevation:** 

0.00 0.0

Depth: Depth:

at: at:

Hours &

Northing: Easting:

0.0

Depth	Sample	Informat	tion	Soil Description	
	Sample No.	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0 ,		88		0" - 12" topsoil 12" - 20" brown fine SAND, trace (-) medium SAND, moist moderately dense, poorly sorted 20" - 26" dark brown fine SAND, trace (+) SILT, moist, dense 26" - 42" brown fine SAND, some (+) medium SAND, moist to wet, loose, poorly sorted	

Comments:

**NA-SB-93** 

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of 1

**Boring ID** Project: **Start Date LEA Commission Number:** 1/23/1998 **NA-SB-93** Client: **End Date** 

Location: P&W East Hartford

**Drilling Contractor:** Loureiro Engineering Associates **Drilling Method:** Direct Push

Sampling Method:

**Groundwater Observation** 0.8

Depth: Depth:

Macro Core

at: :

at:

Hours &

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

1/23/1998

Surface Elevation: 0.00

Northing: 0.0

Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0 ,		88		0" - 6" topsoil 6" - 10" brown fine SAND with medium SAND and PEBBLES, moist, loose porrly sorted 10" - 22" grey fine SAND, trace (-) medium SAND, moist, moderately dense 22" - 42" brown fine SAND, some (+) medium SAND, moist to wet, loose, poorly sorted	

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of 1

Project: **Start Date Boring ID LEA Commission Number:** 1/23/1998 **NA-SB-94** Client: **End Date** 1/23/1998 Location: P&W East Hartford

**Drilling Contractor:** 

Loureiro Engineering Associates

Drilling Method: Direct Push Macro Core

Sampling Method: **Groundwater Observation** 

Depth: 0.8 Depth:

at: at:

Hours &

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson Drill Rig: Geoprobe 5400

**Surface Elevation:** 0.00

Northing: 0.0 Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0 , , , , , , , , , , , , , , , , , , ,		88		0" - 4" topsoil 4" - 42" greyish brown fine SAND, trace (+) medium SAND, moist to wet, loose, poorly sorted	

Page 6 of **Start Date Boring ID** 

1

Project: **LEA Commission Number:** 1/23/1998 **NA-SB-95** Client: **End Date** Location: P&W East Hartford 1/23/1998

**Drilling Contractor:** Loureiro Engineering Associates Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson Drilling Method: Direct Push Sampling Method: Macro Core Drill Rig: Geoprobe 5400

**Groundwater Observation Surface Elevation:** 0.00

Depth: 0.8 Northing: at: : 0.0 Depth: Hours & Easting: 0.0 at:

Depth	Sample	Informat	ion	Soil Description	
<del>-</del>	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0		92		0" - 6" topsoil 6" - 20" dark brown fine SAND and SILT, moist, dense 20" - 44" greyish brown fine SAND, some (-) medium SAND, moist to wet, loose, poorly sorted	

Page of Project: **Start Date Boring ID LEA Commission Number:** 1/23/1998 **NA-SB-96** Client: **End Date** 

Location: P&W East Hartford 1/23/1998 **Drilling Contractor:** Loureiro Engineering Associates Logged by: Boris Tomicic **Drilling Method:** Direct Push Drilling Foreman: Dave Brisson Sampling Method: Drill Rig: Geoprobe 5400 Macro Core **Groundwater Observation Surface Elevation:** 0.00 Depth: Northing: 0.0 0.8 at: : Depth: at: Hours & Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppma
0 , , , , , , , , , , , , , , , , , , ,		92		0" - 34" topsoil 34" - 44" greyish brown fine SAND, some (+) medium SAND, moist to wet, loose, poorly sorted	

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of 1

**Start Date Boring ID** 

1/23/1998 **End Date** 

1/23/1998

**NA-SB-97** 

Location: P&W East Hartford

**LEA Commission Number:** 

**Drilling Contractor:** 

Loureiro Engineering Associates

**Drilling Method:** 

Direct Push Macro Core

Sampling Method: **Groundwater Observation** 

0.8

Depth: Depth:

Project:

Client:

**at:** :

at:

Hours &

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

**Surface Elevation:** 0.00

Northing:

0.0

Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0 , , , , , , , , , , , , , , , , , , ,		83		0" - 12" topsoil 12" - 20" grey fine SAND, trace (+) SILT, moist, dense 20" - 40" greyish brown fine sAND, some (+) medium SAND, moist to wet, loose, poorly sorted	

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**Start Date Boring ID** 

1/23/1998

**End Date** 1/23/1998 **NA-SB-98** 

1

Location: P&W East Hartford

**LEA Commission Number:** 

**Drilling Contractor: Drilling Method:** 

Loureiro Engineering Associates Direct Push

Sampling Method: Macro Core

**Groundwater Observation** 

Depth: 0.8 Depth:

Project:

Client:

at: at:

Hours &

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

Surface Elevation: 0.00

Northing: 0.0 Easting: 0.0

Depth	Sample	: Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0		88		0" - 20" topsoil 20" - 42" greyish brown fine SAND, some (+) medium SAND, wet, loose, poorly sorted	

Location: P&W East Hartford

Drilling Contractor: Loureiro Engineering Associates
Drilling Method: Direct Push

Sampling Method: Macro Core

Groundwater Observation

**LEA Commission Number:** 

Depth: 0.8 Depth:

Project:

Client:

at: : at:

Hours &

Logged by: Boris Tomicic

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

Surface Elevation: 0,00

Northing: 0.0 Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0 ,		83		0" - 10" topsoil 10" - 40" grey to greyish brown fine SAND, some (+) medium SAND, wet, loose, poorly sorted	

Page 1 of 1 **Start Date** Boring ID 1/23/1998 **NA-SB-100 End Date** 1/23/1998

Location: P&W East Hartford

**LEA Commission Number:** 

Project:

Client:

Loureiro Engineering Associates **Drilling Contractor:** Logged by: Boris Tomicic **Drilling Method:** Direct Push Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400 Sampling Method: Macro Core

Surface Elevation: **Groundwater Observation** 0.00 Depth: 1.3 at: Northing: 0.0 Hours & Depth: at: Easting: 0.0

Depth	Sample Information		ion	Soil Description	
·	Sample No.	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID
0 ! .		88		0" - 10" topsoil 10" - 16" brown fine SAND, trace (+) medium SAND, moist, moderately dense 16" - 42" reddish brown fine SAND, some (+) medium SAND, wet, loose, poorly sorted	

Comments:

**NA-SB-100** 

Page 1

of 1

**Start Date** 

**Boring ID** 1/23/1998

Client:

Project:

Location: P&W East Hartford

**LEA Commission Number:** 

**End Date** 1/23/1998 **NA-SB-101** 

**Drilling Contractor:** 

Loureiro Engineering Associates

Logged by: Boris Tomicic

**Drilling Method:** Sampling Method: Direct Push

Macro Core

Drilling Foreman: Dave Brisson

Drill Rig: Geoprobe 5400

**Groundwater Observation** 

**Surface Elevation:** 

0.00

Depth:

1.8

at: :

Northing:

0.0

Depth:

at:

Hours &

Easting:

0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0 ,		83	-	0" - 12" topsoil 12" - 22" brown fine SAND, trace (+) medium SAND, moist, moderately dense 22" - 40" reddish brown fine SAND, some (+) medium SAND, wet, loose, poorly sorted	

Depth: NM

Project: M.E.R.L. Area LEA Comm No: 68TR6 68TR653 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor: Drilling Method:** Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Hours

**Start Date** 6/26/96 **End Date** 6/26/96

**Boring ID** 

NK-SB-05

Logged By: L. Bianchi Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:	A	\t:	Hours	₹ Easting:		
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppr	
-	1015511	61		2": Asphalt; 12": Dark brown, fine SAND, with medium Sand, some coarse Sand, little Silt, trace fine Gravel, slightly dense, moist, wood and roots fragments	43.	
	1015512	100		4": Reddish brown, fine to medium SAND, little coarse Sand, trace Silt, moderately loose, root fragments; 6": Yellowish brown, fine to medium SAND, trace coarse Sand,	65.	
+ + + + + + + + + + + + + + + + + + + +	1015513	100		moderately loose, moist; 4": Greyish brown, fine SAND, trace(+) medium Sand, trace(-) coarse Sand, moderately loose, moist; 9": Reddish brown, medium to coarse SAND, some fine Sand, trace(-) fine Gravel, loose, moist	17.	
<u> </u>	1015514	100		As above, wet As above	28.	
+8	1015515	100		Grey, medium SAND, with coarse Sand, some fine Sand, trace(-) fine Gravel, loose, wet	12.	
‡	1015516	100		12": As above; 6": Reddish brown, as above; 5": Olive grey, varved CLAY, trace Silt, cohesive, wet	27.	
+12 +	1015517	100		As above	5.0	
I	1015518	100		As above	15.	
+ + 16				Bottom of boring 15.0'		
†	مد					
20						
+						

Printed On: 1/26/1998

		1 age 1 of 1
Project: M.E.R.L. Area LEA Comm No: 68TR653	Start Date 6/26/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	End Date 6/26/96	NK-SB-06
Drilling Contractor: LEA	Logged By:	L. Bianchi

Drilling Contractor: LEA

Drilling Method: Geoprobe
Sampling Method: Large Bore
Groundwater Observations:
Depth: NM At: Hours
Depth: At: Hours

Depth: Depth:	NM		At: At:	Hours Hours	Northing: Easting:		
		San	ple Informat	ion	Sample Description		
Elevation/ Depth	San	φle o.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
	101	5527	100		2": Asphalt; 9": Dark brown, fine SAND, little medium Sand, trace fine Gravel, moderately loose, slightly moist, roots; 12": Light yellowish brown, fine to medium SAND, little	33.6	
Ī		5528 5529	100		coarse Sand, trace Silt, loose, moist  19": As above; 4": Dark brown, medium SAND, some fine Sand, little coarse Sand, loose, very moist	42.9 41.0	
+4	101	5530	100		Yellowish brown, fine SAND, trace medium Sand, trace(-) Silt, moderately loose, wet	8.3	
\ \ \ \ \	101	5531	100		20": As above; 3": Yellowish brown, fine to medium SAND, some coarse Sand, trace(+) fine Gravel, trace(-) Silt, loose, wet	22.7	
+8	101	5532	100		Light grey, medium SAND, some fine/coarse Sand, trace(-) Silt, loose, wet	136.1	
† † †	101	5533	65		6": As above; 6": Yellow brown, fine to medium SAND, some coarse Sand, trace(+) Silt, trace(-) fine Gravel, moderately loose, wet; 3": Dark reddish brown, medium to	12.6	
+12	101	5534	100		coarse Sand, little fine Sand, trace(+) fine Gravel, trace(-) Silt, loose, wet; 8": Olive grey, varved CLAY, cohesive, wet	32.1	
+	101	5535	96		As Above	76.3	
Į	<u> </u>		<del></del>	<del></del>	As Above		
+16 +					Bottom of boring 15.0'		
Ŧ		•					
20							
+ 24	<b>.</b>						

LΕΔ

**Comments:** 

Borehole backfilled with bentonite chips upon completion.

Project: M.E.R.L. Area	
LEA Comm No: 68TR653	
Client: Pratt & Whitney	
Location: East Hartford, CT	_
D. M. C. A. A. LEA	

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Large Bore Groundwater Observations:
Depth: NM At:
Depth: At:

Hours



**Boring ID NK-SB-07** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth:	At: Hours Sample Information			Easting: Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп	
0	1015519	61		2": Asphalt; 12": Dark brown, fine SAND, with medium Sand, little coarse Sand, trace fine Gravel, slightly dense, slightly moist, roots and wood fragments	7.4	
† + +	1015520	100		10": Reddish brown, fine to medium SAND, little coarse Sand, trace Silt, loose, moist; 13": Reddish brown, medium to coarse SAND, some fine Sand, trace fine Gravel, loose, moist	29.	
<b>T</b> *	1015521	100		As above, wet	17.	
<u> </u>	1015522	100		Light reddish grey, medium SAND, with fine Sand, some coarse Sand, trace Silt, loose, wet	28.	
+8 +	1015523	100		12": As above; 11": Reddish yellow, medium to coarse SAND, with fine Sand, little fine Gravel, trace Silt, loose, wet	8.0	
‡	1015524	100		14": As above; 9": Light olive grey, varved CLAY, little Silt, trace fine Sand, slightly cohesive, wet	7.6	
<b>-12</b>	1015525	100		Light olive grey, varved CLAY, cohesive, wet	26.	
†	1015526	100		As above	12.	
16				Bottom of boring at 15.0'		
†	-					
20						
1 24						
1		1 1			1	

Printed On: 1/26/1998

Project: Explosives Storage Area LEA Comm No: 68TR653 Client: Pratt & Whitney

Location: East Hartford, CT **Drilling Contractor:** 

Drilling Method: Sampling Method: Geoprobe Large Bore

**Groundwater Observations:** 

Depth: NM Depth:

Hours At: Hours

Start Date 06/27/96 End Date 06/27/96

**Boring ID** NK-SB-08

Logged By: L. Bianchi

Drilling Foreman: J. Sw. Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Sample No. 1015547	Recovery	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity,	
No.	Recovery (%)	Blows /6°		
1015547	1		Sedimentary Structures, Density, Cohesiveness	(ppm)
1013347	100		3": Gravel (processed stone); 9": Dark brown, fine SAND, some medium Sand, trace(+) Silt, trace(-) coarse Sand, slightly moist, moderately dense; 11": Dark yellowish	1.6
1015548	100		trace fine Gravel, slightly moist, moderately dense / Light yellowish brown, medium SAND, with fine Sand, little	3.0
1015549	100		Dark yellow, medium SAND, some fine Sand, little coarse Sand, trace Silt, trace(-) coarse Sand, moderately loose,	1.2
1015550	100		As Above	2.5
1015551	100		As Above	4.1
1015552	100		13": As Above; 10": Light grey, varved CLAY, some fine Sand, little Silt, trace(+) medium Sand, trace(-) cohesive, wet	3.7
1015553	100		Light olive grey, CLAY (varved), trace Silt, cohesive, wet	6.2
1015554	100		As Above	4.6
		·	Bottom of Boring at 15.0'	
	1015549 1015550 1015551 1015552 1015553	1015549 100 1015550 100 1015551 100 1015552 100 1015553 100	1015549 100  1015550 100  1015551 100  1015552 100  1015553 100  1015554 100	1015548   100

Project: Explosives Storage Area LEA Comm No: 68TR653 Client: Pratt & Whitney Location: East Hartford, CT

Hours

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Large Bore

Sampling Method: Large Groundwater Observations:

Depth: NM At: Start Date 06/27/96 **End Date** 06/27/96

**Boring ID** 

**NK-SB-09** 

Logged By: L. Bianchi

Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:		At:	Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп	
	1015536	100		2": Processed stone; 21": Dark yellowish brown, fine SAND, little medium Sand, trace(+) Silt, trace(-) coarse Sand, slightly dense, moist	0.0	
Ī [	1015537 1015538	100		As above	2.4 2.6	
+4	1015539	100		As above, wet	4.0	
Ŧ	1015540	100		As above	5.0	
8	1015541	30		As above	6.0	
#	1015542	74		8": As above; 9": Light olive grey, varved CLAY, some fine Sand, little Silt, trace(+) medium Sand, cohesive, wet	6.6	
12	1015543	100		Light olive grey, CLAY, some Silt, little fine Sand, trace(-) medium Sand, cohesive, wet	5.2	
<u> </u>	1015544	100		Light olive grey, CLAY, trace(-) Silt, cohesive, wet	5.	
16				Bottom of boring at 15.0'		
20						
24						
Comments:	Boreho	ole backfi	lled with be	entonite chips upon completion.		

Printed On: 1/26/1998

Project: Explosives Storage Area

LEA Comm No: 68TR653

Client: Pratt & Whitney

Location: East Hartford, CT

6/

Start Date 6/27/96 End Date 6/27/96

Boring ID NK-SB-10

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Large Bore

**Groundwater Observations:** 

Depth: NM Depth: At: Hours
At: Hours

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Northing: Easting:

Deptil.	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1015555	100		8": Dark brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, moderately dense, slightly moist 15": Dark yellowish brown, medium SAND, with fine Sand,	2.8
†	1015556	100		trace(+) coarse Sand, trace(-) Silt, moderately loose, moist As above	4.6
+4	1015557	100		As above, wet	4.9
+	1015558	100	· <u>-</u>	As above	4.5
+8	1015559	100		As above	4.9
<u> </u>	1015560	100		As above; 7": Light olive grey, varved CLAY, some fine Sand, little Silt, trace(+) medium Sand, cohesive, wet	5.7
+12	1015561	100		Light olive grey, CLAY, some Silt, little fine Sand, trace(+) medium Sand, cohesive, wet	4.2
+	1015562	100		As above	3.0
16				Bottom of boring at 15.0'	
20					
-24					
†					
Comments	: Boreho	le backfill	led with be	entonite chips upon completion.	

LEA

Deptit:		At:	пошъ	Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn	
+ 0	1015479	100		3": Gravel, processed stone; 7": Dark brown, fine SAND some medium Sand, little Silt, trace(-) coarse Sand, slightly moist, slightly dense; 13": Reddish brown, fine		
Ţ	1015480 1015481	100		SAND, some medium Sand, little coarse Sand, trace Silt, very moist, loose  As above, very moist	1.6	
+4	1015482	100		As above, wet	4.0	
<del>-</del>	1015483	100		As above	8.2	
+ 8	1015484	100		Reddish brown, medium to coarse SAND, with fine Sand little Silt, trace fine Gravel, wet, moderately loose	5.2	
<u> </u>	1015485	100		17": As above; 6": Olive grey, varved CLAY, with fine S some Silt, little medium Sand, trace(-) coarse Sand, wet, cohesive	and, 3.8	
+12 +	1015486	100		Olive grey, CLAY, trace Silt, wet, cohesive	6.0	
Ī	1015487	100		As above	6.2	
16 +				Bottom of boring at 15.0'		
+20						
† † † †						
† + 24 +						
Comments	: Boreho	de backfil	lled with be	entonite chins upon completion.		

Comments:

Borehole backfilled with bentonite chips upon completion.

Printed On: 1/23/1998

Project: Explosives Storage Area LEA Comm No: 68TR653

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Large Bore

Groundwater Observations:

Depth: NM Depth: At:

: Hours Hours



Boring ID

6/28/96 NK-SB-12
Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Depth:	At: Hours						
Elevation/ Depth	Sar	npie Informa	ation	Sample Description			
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
10	1015488	100		Reddish brown, fine to medium SAND, some Silt, little coarse Sand, trace(-) fine Gravel, slightly moist, loose	2.6		
ŧ	1015489	100		As above	3.5		
4	1015490	100		As above, wet	4.1		
† †	1015491	100		As above	11.0		
+8 +	1015492	100		Brown, fine SAND and SILT, trace medium Sand, wet, slightly cohesive	0.6		
Ī	1015493	100		13": As above; 10": Olive grey, varved CLAY, little Silt, trace(-) fine Sand, wet, cohesive	0.7		
12	1015494	100		As above	0.2		
‡	1015495	100		As above	0.6		
† † 16 †				Bottom of boring at 15.0'			
20							
-24							
Comments	s: Boreho	ole backfi	illed with be	entonite chips upon completion.			

Project: Explosives Storage Area LEA Comm No: 68TR653 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** 

**Start Date** 6/28/96 End Date 6/28/96

Boring ID

**NK-SB-13** 

Drilling Method: Geoprobe Large Bore

Sampling Method: Large Groundwater Observations:

Depth: NM

Hours

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth:	At: Hours		Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1015496	100		Yellowish brown, fine SAND, some medium Sand, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, slightly moist, moderately loose	0.3	
†	1015497	100		Dark yellowish brown, medium SAND, with fine Sand, some coarse Sand, little Silt, trace(-) fine Gravel, very moist, loose	0.4	
<b>†4</b>	1015498	100		As above, wet	0.2	
+	1015499	100		As above	0.3	
-8	1015500	100		Brown, fine SAND, some Silt, wet, stiff	0.1	
‡	1015501	100		Olive grey, varved CLAY, some Silt, little fine Sand, trace(-) medium Sand, wet, cohesive	0.5	
12	1015502	100		Olive grey, varved CLAY, trace Silt, wet, cohesive	0.2	
†				No recovery (not enough for sample)	0.1	
				Bottom of boring at 15.0'		
20						
-24						
Comments	: Boreho	le backfi	illed with be	entonite		

Project: Explosives Storage Area LEA Comm No: 68TR653

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Large Bore

**Groundwater Observations:** 

Depth: NM Depth:

At: At:

Hours

Hours

Start Date 7/8/96 End Date 7/8/96

**Boring ID** 

NK-SB-14

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

	Sar	mple Informa	ation	Sample Description	1
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1015581	100		Dark brown, fine SAND, little Silt, medium Sand, trace coarse Sand, slightly moist, slightly dense	0.6
†	1015582	100		Dark yellow, fine to medium SAND, trace coarse Sand, trace(-) Silt, very moist, moderately loose	0.8
+4	1015583	100		As above, wet	1.4
+	1015584	100		Reddish brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moderately loose, wet	1.0
+8	1015585	100		Light yellowish brown, fine SAND, with Silt, trace(+) medium Sand, wet, moderately loose	0.6
<u>†</u>	1015586	100		8": As above; 15": Olive grey, varved CLAY, stiff, wet	0.0
12	1015587	100		As above	0.6
†	1015588	100		As above	0.4
16				Bottom of boring at 15.0'	
20					
- 24					
Comments	: Boreho	ole backf	illed with h	pentonite chips upon completion.	

Project: Explosives Storage Area LEA Comm No: 68TR653

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Geopro Sampling Method: Large Groundwater Observations: Geoprobe Large Bore

Depth: NM Depth:

At: At: Hours Hours Start Date 7/8/96 **End Date** 7/8/96

**Boring ID** 

NK-SB-15

Logged By: L. Bianchi

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth:	F	At:	Hours	₹ Easting:		
	San	nple Informati	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1015572	100		Dark brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, slightly moist, slightly dense	0.0	
†	1015573	100		Dark yellowish brown, fine to medium SAND, trace coarse Sand, trace(-) Silt, very moist, moderately loose	0.6	
+4	1015574	100		As above, wet	0.2	
+	1015575 1015576	100		Reddish brown, fine SAND, some Silt, little medium to coarse Sand, moderately loose, wet	0.4 0.4	
-8	1015577	100	_	Yellowish brown, fine SAND and SILT, trace medium Sand, moderately loose, wet	0.0	
+	1015578	100		6": As above; 17": Olive grey, varved CLAY, wet, stiff	0.1	
12	1015579	100		As above	0.2	
† †	1015580	100		As above	0.2	
16				Bottom of boring at 15.0'		
20						
24						
Comments				entonite chips upon completion.		

**Project:** Explosives Storage Area Start Date Boring ID LEA Comm No: 68TR653 07/02/96 Client: Pratt & Whitney **End Date** NK-SB-16 East Hartford, CT 07/02/96 Location: **Drilling Contractor:** L. Bianchi Logged By: Drilling Method: J. Sweeton Geoprobe Drilling Foreman: Sampling Method: Large Bore Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Hours Hours Northing: Depth: NM At: Depth: At: Easting: Sample Description Sample Information olor, Primary Grain Size, Secondary Grain Sizes, Elevation/ Blows Sample No. Depth Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1015564 100 0.0 Dark brown, medium SAND, with fine Sand, some coarse Sand, little fine Gravel, trace Silt, slightly moist, loose 1015565 100 1.2 Yellowish brown, medium SAND, some fine Sand, little coarse Sand, trace(-) fine Gravel, very moist, loose 1015566 100 1.5 As above, wet 1015567 100 1.5 As above 1015568 100 2": As above; 21": Dark olive grey, varved CLAY, little 2.0 Silt, wet, stiff 1015569 100 1.5 As above 12 1015570 100 2.5 As above 2.5 1015571 100 As above Bottom of boring at 15.0' 16 20 24 Boring

Comments:

Ż

Borehole backfilled with bentonite chips upon completion.

Project: Explosives Storage Area LEA Comm No: 68TR653

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Large Groundwater Observations: Geoprobe Large Bore

Depth: NM Depth:

At:

**Start Date** 7/2/96 **End Date** 7/2/96

**Boring ID** 

NK-SB-17

Logged By: L. Bianchi

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

<del></del>		At:	Hours	Easting:	
L	San	ple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (४)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1015503	100		Dark brown, medium SAND, with fine Sand, some coarse Sand, little fine Gravel, trace Silt, slightly moist, loose, roots	0.0
	1015504	100		Dark yellowish brown, fine to medium SAND, little coarse Sand, trace(-) Silt, very moist, loose	0.5
<b>1</b>	1015505 1015506	100		As above, wet	0.0 0.0
‡	1015507	100		Dark yellowish red, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, moderately loose	0.5
+8	1015508	100		As above	0.0
<u> </u>	1015509	100		6": As above; 18": Dark olive grey, varved CLAY, little Silt, wet, stiff	0.0
12	1015510	100		As above	1.0
	1015563	100		As above	0.5
-16				Bottom of boring at 15.0'	
20					
†					
+24					
Comments:	Boreho	le backfi	lled with ber	ntonite chips upon completion.	

Project: X-430 Area 68TR653 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Large Groundwater Observations: Geoprobe Large Bore Start Date 7/9/96 **End Date** 7/9/96

**Boring ID** 

NK-SB-18

Logged By: L. Bianchi Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth: Depth:	NM		At:	Hours Hours	Northing: Easting:	
-		Sar	nple Informa	tion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
+0		1015589 1015590	100		3": Dark brown/black, fine to medium SAND, with Silt, little coarse Sand, slightly moist, loose, roots; 6": Brown, fine SAND, some Silt, trace medium Sand, moist, loose;	0.8 0.9
Ī		1015591	100		14": Dark brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, very moist, loose	0.4
+4		045500	100		Light reddish brown, fine SAND and medium SAND, little Silt, trace(-) coarse Sand, wet, loose	0.0
‡		1015592	100		Yellowish brown, medium Sand, with fine Sand, little coarse Sand, trace Silt, wet, loose	0.6
† †		1015593	100		As above	0.7
‡8 ‡	-	1015594	100		As above	18.0
†		1015595	100		18": As above; 5": Olive grey, varved CLAY, trace fine Sand/Silt	38.0
<u> </u>	2	1015596	100		As above	3.5
‡		1015597	100		As above	2.2
10	6				Bottom of boring at 15.0'	
- 20	0					
+ 24	4					
Ī						
Comme	nts:	Boreho	le backfi	lled with be	entonite chips upon completion.	

X-430 Area Project:

LEA Comm No: 68TR653 Client: Pratt & Whitney East Hartford, CT Location:

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Depth: NM Depth:

At: Hours Hours

Start Date 7/9/96 **End Date** 7/9/96

**Boring ID** 

**NK-SB-19** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:	At: Hours		Hours	₹ Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1015598	100		6": Dark brown, fine SAND, with Silt, little medium Sand, moist, loose, roots; 17": Olive brown, fine SAND, little Silt, trace medium Sand, moist, loose;	2.0	
Ī	1015599	100		Light reddish brown, fine and medium SAND, little coarse Sand, trace Silt, moist, loose	2.2	
+4	1015600	100		Light reddish brown, fine SAND, with medium Sand, some Silt, little coarse Sand, trace fine Gravel, wet, loose	3.2	
†	1015601	100		Dark yellowish brown, medium SAND, with fine Sand, some coarse Sand, little Silt, wet, loose	1.3	
+8	1015602	50		As above	0.2	
İ	1015603	50		As above	1.3	
12	1015604	100		Olive grey, varved CLAY, trace Silt, trace(-) fine Sand, wet, stiff	1.6	
+	1015605	100		As above	1.6	
16				Bottom of boring at 15.0'		
20						
24						
Comments	s: Boreho	ole backfil	lled with be	entonite chips upon completion		

At:

At:

Depth: NM

Depth:

Project: X-430 Area rt Date LEA Comm No: 68TR653 79/96 Client: Pratt & Whitney **End Date** Location: East Hartford, CT 7/9/96 LEA **Drilling Contractor:** Drilling Method: Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Hours

Hours

**Boring ID NK-SB-20** 

Logged By: L. Bi L. Bianchi J. Sweeton Drill Rig: Geopre Surface Elevation: Northing: Easting: Geoprobe 5400

Deptil.		11.	110413	÷ Zasting.	
	Sar	npie Informa	tion	Sample Description	_
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1015607	100		4": Dark brown/black, fine to medium SAND, with Silt, organics and forest litter; 8": Dark brown, fine to medium SAND, trace organics, moist; 12": Brown, fine to medium	1.0
†	1015608	100		SAND, trace Silt, moist  Light reddish brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	3.0
+4	1015609	100		Brown, fine to medium SAND, trace coarse Sand, trace Silt, wet, loose	2.5
† †	1015610	100		8": As above; 4": Dark brown, SILT, with fine Sand, wet, moderately loose; 12": Reddish brown, fine to medium SAND, some coarse Sand, wet, loose	3.5
+8	1015611	80		22": As above; 2": Blackish reddish brown, fine to medium SAND, some coarse Sand, wet, loose	4.0
‡ 	1015612	80		6": Reddish brown, fine to medium SAND, some coarse Sand, wet, loose; 18": Olive grey, varved CLAY, trace fine Sand and Silt	5.0
+12 +	1015613	60		As above	2.5
<u> </u>	1015614	60		As above	1.5
16				Bottom of boring at 15.0'	
20					
24					
<u> </u>			···		
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	

X-430 Area Project: 68TR653 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Depth: NM

At:

Hours

**Start Date** 7/10/96 **End Date** 7/10/96

**Boring ID** 

NK-SB-21

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	At: Hours Sample Information			Easting: Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
	1015606	100		8": Dark brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moist, loose, roots; 15": Brown, fine Sand, little medium Sand, trace(+) Silt, trace(-) coarse Sand, moist, loose, hydrocarbon odor	0.7	
<b>‡</b>	1015615	100		Olive brown, fine SAND, with Silt, little medium Sand, trace(-) coarse Sand, very moist, loose	40.0	
+4	1015616 1015617	80		Light yellow, medium SAND, some fine Sand, little coarse Sand, trace coarse Sand, wet, loose	7.6 6.4	
‡	1015618	100		Light yellow, medium SAND, some fine Sand, little coarse Sand, trace coarse Sand, wet, loose	12.0	
+8	1015619	100		Light red, fine SAND, little medium Sand, trace(-) Silt, wet, loose, hydrocarbon odor	12.8	
†	1015620	100		Yellowish brown, fine SAND, with medium Sand, some coarse Sand, trace fine Gravel, trace(-) Silt, wet, loose	3.0	
+12	1015621	100		6": As above; 17": Olive grey, varved CLAY, trace Silt, trace(-) fine Sand, wet, stiff	1.7	
‡	1015622	100		As above	1.1	
† 				Bottom of boring at 15.0'		
20						
24						
Comments	: Boreho	le backfil	lled with be	entonite chips upon completion.		

Project: X-430 Area LEA Comm No: 68TR653 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Depth: NM Depth:

Hours At: Hours

Start Date 7/10/96 **End Date** 7/10/96

**Boring ID** 

NK-SB-22

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:		At:	Hours	₹ Easting:		
	Sar	nple Inform	ation	Sample Description		
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1015623	100		8": Dark brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moist, loose, roots; 13": Dark yellowish brown, fine to medium SAND, some coarse Sand, trace Silt,	0.0	
<u> </u>	1015624	80		As above	0.0	
+4	1015625	100		As above, wet	0.0	
Ī	1015626	100		Yellowish red medium SAND, with fine Sand, some coarse Sand, little Silt, trace(-) fine Gravel, wet, loose	0.0	
-8	1015627	50		As above	0.4	
+	1015628	80		Dark yellowish brown, medium SAND, with coarse Sand, some fine Sand, little fine Gravel, trace(-) Silt, wet, loose	2.8	
12	1015529	100		6": As above; 17": Olive grey, varved CLAY, trace Silt, trace(-) fine SAND, wet, stiff	2.5	
†	1015630	100		As above	1.7	
16 + + + + +				Bottom of boring at 15.0'		
20						
+ 24						
Ī						

Project: X-430 Area LEA Comm No: 68TR653 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEAD Drilling Method: Geopro Sampling Method: Large Groundwater Observations: Geoprobe Large Bore

Depth: NM

Hours

Start Date
7/10/96 7/10/96 End Date 7/10/96

**Boring ID** 

**NK-SB-23** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:	At: Hours		Hours	Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
- 0	1015631	100		6": Dark brown, fine SAND, little Silt, trace medium Sand, moist, loose, roots; 17": Dark yellowish, fine to medium SAND, some coarse Sand, trace Silt, moist, loose	0.0	
‡	1015632	80		As above	0.7	
+4	1015633	100		Light reddish brown, fine SAND, little Silt, trace medium Sand, trace(-) coarse Sand, wet, loose	7.2	
†	1015634	60		Yellowish brown, medium SAND, with fine Sand, some coarse Sand, trace fine Gravel, trace(-) Silt, wet, loose	0.2	
+8 + +	1015635	50		Dark yellowish brown, fine SAND with Silt, some medium Sand, little coarse Sand, wet, loose	0.5	
‡	1015636	100		As above	1.1	
+12	1015637	100		6": As above; 17": Olive grey, varved CLAY, trace Silt, trace(-) fine Sand, wet, stiff	0.1	
‡ †	1015638	100		As above	0.8	
— 16 —				Bottom of boring at 15.0'		
24						
Comments:	Boreho	le backfi	lled with be	entonite chips upon completion.		

Project: X-430 Area LEA Comm No: 68TR653 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Large Bore

**Groundwater Observations:** 

Depth: NM

Hours ₹



**Boring ID** 

NK-SB-24

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth: r		At: At:	Hours	Easting:	
	Sam	pie Informati	on.	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
o	1015648	100		Dark brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moist, loose	0.0
†	1015649	100		Light greyish brown, fine to medium SAND, some coarse Sand, little Silt, loose, very moist	18.0
4	1015650	100		As above, wet	15.0
†	1015651	100		10": As above; 3": Reddish brown, fine SAND and SILT, slightly stiff, wet; 10": Dark yellowish brown, medium SAND, with fine Sand, some coarse Sand, little fine Gravel, trace(-) Silt, loose, wet	13.0
	1015652	100		Dark reddish brown, fine to medium SAND, some coarse Sand, little Silt, trace(-) fine Gravel, loose, wet	1.1
†	1015653	35		8": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, stiff, wet	1.0
12	1015654	100		As above	1.1
‡	1015655	100		As above	1.4
16				Bottom of boring at 15.0'	
20					
24					
1	1	1 1			



Z.

Project: X-415 Area 68TR656 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Large Bore

Sampling Method: Large Groundwater Observations: Depth: NM At: Depth: At:

7/15/96

Hours

Hours

**Start Date** 7/15/96 **End Date** 

**Boring ID** 

**NK-SB-27** 

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depui:		ple Informat	Monta	Sample Description	т —
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
10	1016000	100		8": Black, fine SAND and SILT, some medium Sand, trace coarse Sand, moist, loose, organics; 15": Light reddish brown, fine SAND and medium SAND, some coarse Sand, \tace(+) Silt, trace(-) fine Gravel, very moist, loose	5.2
<del> </del>	1016001	100		As above, strong hydrocarbon odor, wet at ≈3.0'	59.0
+4	1016002	70		Yellowish brown, fine SAND, with medium Sand, some coarse Sand, little Silt, trace(-) fine Gravel, loose, wet	2.7
+	1016003	70		As above	2.9
	1016004	100		Olive brown, CLAY (varved), little Silt, trace fine Sand, stiff, wet	2.1
† †	1016005	100		Olive gray, varved CLAY, trace(+) Silt, trace(-) fine Sand, stiff, wet	3.4
+12 +	1016006	100		As above	2.4
1	1016007	100		As above	2.0
16				Bottom of boring at 15.0'	
†					
÷20					
† †					
24					
Comments	: Borebo	le backfil	led with be	entonite chips upon completion.	

GEOLOG	FIC BOR	TING I	WG		Page 1 of	t
LEA Comm Client: P	X-415 Area m No: 68 ratt & Whit East Hart	TR656	•		Start Date   Boring	
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observa M	LEA Geoprobe Large E tions: At: At:		<u>₽</u>	Logged By: L. Bianchi Drilling Foreman: J. Sweet Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	on
	San	nple Inform	ation		Sample Description	
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6*	Mo	Primary Grain Size, Secondary Grain Sizes, isture, Sorting, Sphericity, Angularity, sentary Structures, Density, Cohesiveness	(ppm)
To	1015991	100		7": Black, fin	e SAND and SILT, some medium Sand, trace	5.0

Elevation/ Depth	Sample Information			Sample Description	
	Sample No.	Recovery (次)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1015991	100		7": Black, fine SAND and SILT, some medium Sand, trace coarse Sand, slightly moist, loose; 16": Light reddish brown, fine SAND and medium SAND, some coarse Sand,	5.0
Ī	1015992 1015993	100		trace Silt, trace(-) fine Gravel, very moist, loose As above, hydrocarbon odor, wet at ≈3.0'	55.0 51.0
+4	1015994	80		Yellowish brown, fine SAND and medium SAND, some coarse Sand, trace Silt, trace(-) fine Gravel, wet, loose	3.6
+	1015995	80		As above	3.9
8	1015996	95		Olive brown, varved CLAY, some Silt, little fine Sand, stiff, wet	2.0
† †	1015997	95	_	Olive gray, CLAY, trace(+) Silt, trace (-) fine SAND, stiff, wet	1.9
12	1015998	100		As above	2.1
Ī	1015999	100		As above	2.2
16				Bottom of boring at 15.0'	
+	_				
20					
†					
-24	1				
‡					



Project: X-415 Area LEA Comm No: 68TR656	R	Start Date 07/15/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		End Date 7/15/96	NK-SB-29
Drilling Contractor: LEA			ianchi
Drilling Method: Geoprobe		Drilling Foreman:	J. Sweeton
Sampling Method: Large Bore	1 >	Drill Rig: Geopr	obe 5400
Groundwater Observations:	1 _	Surface Elevation:	
Depth: NM At: B	<b>C</b> s ♀	Northing:	
Denth: At: How	re ¥	<b>Facting</b>	

Depth: Depth:		At: At:	Hours	Northing:	
	Ser	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
ľ	1016008	100		7": Black, fine SAND, with Silt, some medium Sand, trace(-) coarse Sand, moist, loose, organic material; 16": Light reddish brown, fine SAND and medium SAND, some coarse	4.4
Ŧ	1016009	100		Sand, trace(+) Silt, trace(-) fine Gravel, moist, loose  As above, strong hydrocarbon odor, wet at ≈3.0'	35.0
‡ <b>4</b>	1016010	100		Yellowish brown, fine SAND, with medium Sand, some coarse Sand, little Silt, trace(-) fine Gravel, loose, wet	7.1
†	1016011	100		As above	11.0
+ 8	1016012	85	·	Olive brown, CLAY (varved), some Silt, trace fine Sand, moderately stiff, wet	3.5
‡ ‡	1016013	85		Olive grey, CLAY (varved), trace Silt, trace(-) fine Sand, stiff, wet	1.7
12	1016014	100		As above	2.0
†	1016015	100		As above	2.1
<del>-</del> 16				Bottom of boring at 15.0'	
+20					
+24					
Commen	its: Boreho	ole backfill	ed with be	entonite chips upon completion.	

Project: X-401 Area 68TR656 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor:
Drilling Method:
Sampling Method:

Geoprobe Large Bore **Groundwater Observations:** 

Hours

Depth: NM

**Start Date** 7/16/96 End Date 7/16/96

**Boring ID NK-SB-30** 

Logged By: L. Bianchi
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:	A	At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1016026	100		10": Black, fine SAND and SILT, little medium Sand, trace coarse Sand, moist, loose, root fragments; 13": Light greyish brown, fine SAND, trace(+) Silt, trace(-) medium	0.8
I	1016027	100		Sand, moist, loose As above	2.0
+4	1016028	100		10": Dark yellow, medium SAND, with fine Sand, trace(+) Silt, trace(-) coarse Sand, wet at ≈ 4.5'; 13": Dark olive grey, fine SAND, some Silt, loose, wet	2.2
‡	1016029	100		Grey, fine SAND, with Silt, some medium Sand, little coarse Sand, trace (+) coarse Sand, trace (-) fine Gravel, loose, wet	1000
+8	1016030	100		As above	15.
+	1016031	100		13": As above; 12": Olive grey, varved CLAY, trace Silt, trace (-) fine Sand, stiff, wet	12.
-12	1016032	100		As above	5.7
† †	1016033	100		As above	3.1
16				Bottom of boring at 15.0'	
+20					
†					
-24					
Comments	: Boreho	ole backfi	illed with be	entonite chips upon completion.	

Project: X-401 LEA Comm No: X-401 Area 68TR656 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Depth: NM

At:

Hours

7/17/96 **End Date** 7/17/96

Start Date **Boring ID** NK-SB-31

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Sample No. 1016043 1016044 1016045 1016046 1016048	Recovery (X) 100 100 80	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  4": Black, fine SAND and SILT, little medium Sand, trace coarse Sand, moist, slightly dense, organic, root fragments; 19": Dark yellow, fine SAND, some Silt, trace (-) medium Sand, moist, loose  Light olive brown, fine SAND, some Silt, trace medium Sand, wet at 3.5', loose  Light olive brown, fine to medium SAND, some Silt, trace(+) coarse Sand, wet, loose  Olive grey, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	(ppm) 5.5 5.1 4.6
No. 1016043 1016044 1016045 1016046 1016047	100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  4": Black, fine SAND and SILT, little medium Sand, trace coarse Sand, moist, slightly dense, organic, root fragments; 19": Dark yellow, fine SAND, some Silt, trace (-) medium Sand, moist, loose  Light olive brown, fine SAND, some Silt, trace medium Sand, wet at 3.5', loose  Light olive brown, fine to medium SAND, some Silt, trace(+) coarse Sand, wet, loose  Olive grey, fine to medium SAND, little Silt, trace coarse	5.5
1016044 1016045 1016046 1016047	80		coarse Sand, moist, slightly dense, organic, root fragments; 19": Dark yellow, fine SAND, some Silt, trace (-) medium Sand, moist, loose Light olive brown, fine SAND, some Silt, trace medium Sand, wet at 3.5', loose Light olive brown, fine to medium SAND, some Silt, trace(+) coarse Sand, wet, loose Olive grey, fine to medium SAND, little Silt, trace coarse	5.1 4.6
1016045 1016046 1016047	80		Light olive brown, fine SAND, some Silt, trace medium Sand, wet at 3.5', loose  Light olive brown, fine to medium SAND, some Silt, trace(+) coarse Sand, wet, loose  Olive grey, fine to medium SAND, little Silt, trace coarse	4.6
1016046 1016047	80		Olive grey, fine to medium SAND, little Silt, trace coarse	
1016047				4.7
1016048	100		Sarid, Wet, 10036	7.0
			10": As above; 13": Brownish grey, fine SAND, with Silt, trace medium Sand, wet, loose	5.4
1016049	100		10": As above; 13": Olive grey, varved CLAY, trace Silt, trace(-) fine Sand, wet, stiff	5.6
1016050	100		As above	5.1
1016051	100		As above	4.9
			Bottom of boring at 15.0'	
			·	
	Boreho	Borehole backfill	Borehole backfilled with be	Borehole backfilled with bentonite chips upon completion.

deologic boking log	and the state of t	Page 1 of 1
Project: Silver Lane Pickle Add. In. LEA Comm No: 68V7039 Client: Pratt & Whitney Location: East Hartford, CT	Start Date 2/19/97 End Date 2/19/97	Boring ID NA-SB-32
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core Groundwater Observations: Depth: NM At: Hours Depth: At: Hours	Logged By: Dorilling Foreman Drill Rig: Geo Surface Elevation Northing: Easting:	n: Jon Sweeton probe 5400
Sample Information  Elevation/	Sample Description  Color, Primary Grain Size, Secondary (	Grain Sizes,

		At:	Hours	₹ Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
†°	1026357	100		Top 20": Brown, fine SAND, Top 6": Frozen, Bottom 14": moist, trace organic matter, loose; Bottom 4": Red brown, coarse to fine SAND, trace Gravel and fill material, moist,	0
Ī	1026358	100		Orange to yellow brown, fine SAND, trace(+) medium Sand, moist, loose	0
+4	1026359	75	-	Top 10": Orange to grey brown, fine SAND, trace(+) medium Sand, moist, loose; Bottom 8": Grey, medium to fine SAND, trace(-) coarse Sand, moist, loose	0
1	1026360 1026361	75		Top 8": As above, bottom 8" (wet); Middle 6": Orange brown, fine SAND, iron staining present, wet; Bottom 4": Dark brown to gray brown, fine to medium SAND, wet,	5
T°	1026362	62		Top 10": Grey, fine SAND, trace(+) medium Sand, wet, loose; Bottom 5": Grey, fine SAND, wet, loose	0
Ĭ 	1026363	62		Top 8": Grey, fine SAND, grading to dark grey, fine SAND, wet, loose (heavy organic odor); Bottom 7": Grey, medium to fine SAND, trace(-) coarse Sand, wet, loose	4
12	1026364	100		As above, bottom 7"	0
<del> </del>	1026365	100		Top 20": As above; Bottom 4": Grey, fine SAND, trace(-) medium Sand, wet, loose	0
16				Bottom of boring at 16'	
20					
-24					
1 -	ł	1			

Project: X-401 LEA Comm No: X-401 Area 68TR656 Client: Pratt & Whitney East Hartford, CT Location:

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Large Bore

**Groundwater Observations:** 

Depth: NM Depth:

At: At.

Start Date 7/17/96 **End Date** 7/17/96

**Boring ID** 

**NK-SB-33** 

L. Bianchi

Logged By: L. B. Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Easting:

Depth:	F	At:	Hours	₹ Easting:	
	Sam	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1016052	100	;	3": Black, fine SAND and SILT, little medium Sand, trace coarse Sand, moist, slightly dense; 20": Reddish brown, fine SAND, with Silt, trace(-) medium Sand, moist, loose	2.0
+	1016053	100		Yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, wet at 3.5', loose	1.9
+4	1016054	100		Dark yellow, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	2.6
+	1016055	100		Olive grey, fine SAND, with Silt, trace medium Sand, wet, slightly loose	5.7
+8	1016056	100		As above	4.3
+	1016057	100		10": As above; 13": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff	2.1
12	1016058	100		As above	1.7
+	1016059	100		As above	1.9
+ 16 + + +				Bottom of boring at 15.0'	
+ + 20					
24					
† - ·					



Project: X-401 Area Start Date **Boring ID** 68TR656 7/18/96 End Date LEÀ Comm No: Client: Pratt & Whitney NK-SB-34 Location: East Hartford, CT 7/18/96 Drilling Contractor: Drilling Method: Sampling Method: Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation: LEA Geoprobe Large Bore **Groundwater Observations:** 

Depth: Depth:		At: At:	Hours Hours	Surface Elevation: Northing: Easting:	,
	Sa	mple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016070	100		4": Dark brown/black, fine SAND, some Silt, little medium Sand, trace coarse Sand, slightly loose, moist; 19": Yellowish grey, fine SAND and medium SAND, little coarse	1.2
Ŧ	1016071	100		Sand, trace(+) Silt, trace(-) fine Gravel, moist As Above, wet at 3.5'	1.0
14	1016072 1016073	90		Olive brown, fine SAND and SILT, little medium Sand, trace(-) coarse Sand, wet, loose	3.2 3.1
+	1016074	90		As Above	3.3
+8	1016076	100	· .	18": As Above; 5": Olive grey, varved CLAY, trace(+) Silt, trace (-) fine Sand, wet, stiff	0.8
-	1016076	100		As Above	2.2
12	1016077	100		As Above	2.0
‡	1016078	100		As Above	1.7
+16			_	Bottom of Boring at 15.0'	
‡					
+ 20					
Ī					
24					
1					
Commer	its: Boreho	ole backfil	led with be	entonite chips upon completion.	

Project: X-401 Area LEA Comm No: 68TR656 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Large
Groundwater Observations: Geoprobe Large Bore

At:

At:

Depth: NM Depth:

Hours

Start Date 7/17/96 End Date 7/17/96

**Boring ID** 

NK-SB-35

Logged By: L. Bianchi

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Easting:

	Com	4. T			
	Sem	nple Informa	rtion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016060	100		Light brown, fine SAND, little Silt, trace medium Sand, moist, loose	2.8
<u> </u>	1016061	100		Olive grey, fine SAND, little Silt, trace medium Sand, moist, loose	2.4
<b>+4</b>	1016062	100		As Above, wet	7.1
+	1016063	100	125	As Above	7.0
-8	1016064	100		As Above	4.3
†	1016065	100		12": As Above; 11": Olive grey, varved CLAY, trace Silt, trace(-) fine Sand, wet, stiff	2.7
12	1016066	100		As Above	1.9
‡	1016067	100		As Above	1.9
16				Bottom of Boring at 15.0'	
20					
+ 24					
1 ~~					

Project: X-401 Area LEA Comm No: 68TR656 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor: Drilling Method:** Geoprobe Sampling Method:

Large Bore

**Groundwater Observations:** 

Depth: NM

Hours

Start Date 7/22/96 End Date 7/22/96

**Boring ID** NK-SB-36

Logged By: L. Bianchi

Drill Rig: Geoprobe 5400
Surface Elevation:

Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness    1016123   90   3": Dark brown/black, fine SAND with Silt, trace medium Sand, moist, slightly loose, root fragments; 17": Yellowish brown, fine SAND, some Silt, moist, loose    1016124   90   17": As Above, very moist; 3": Light grey, fine SAND, some medium Sand, trace(+) coarse sand, trace(-) Silt, very moist, loose    1016125   60   Light reddish grey, medium SAND, some fine Sand, little coarse Sand, trace(-) Silt, wet, loose    1016126   60   10": As Above; 4": Reddish brown, fine to medium SAND, with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose    1016127   60   Olive brown, fine to medium SAND with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose    1016128   60   Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff    12   1016129   100   As Above	Depth:		At:	Hours	₹ Easting:	
Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness   Sedimentary Structures, Density, Cohesiveness		San	nple Informa	tion	Sample Description	
Sand, moist, slightly loose, root fragments; 17": Yellowish brown, fine SAND, some Silt, moist, loose  1016124 90 17": As Above, very moist; 3": Light grey, fine SAND, some medium Sand, trace(+) Coarse sand, trace(-) Silt, very moist, loose  1016125 60 Light reddish grey, medium SAND, some fine Sand, little coarse Sand, trace(-) Silt, wet, loose  1016126 60 10": As Above; 4": Reddish brown, fine to medium SAND, with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016127 60 Olive brown, fine to medium SAND with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016128 60 Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff  12 1016129 100 As Above  Bottom of Boring at 15.0"	Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Moisture, Sorting, Sphericity, Angularity,	(ppm)
medium Sand, trace(+) coarse sand, trace(-) Silt, very moist, loose  Light reddish grey, medium SAND, some fine Sand, little coarse Sand, trace(-) Silt, wet, loose  1016126 60 10": As Above; 4": Reddish brown, fine to medium SAND, with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016127 60 Clive brown, fine to medium SAND with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016128 60 Clive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff  12 1016129 100 As Above  Bottom of Boring at 15.0'	10	1016123	90		Sand, moist, slightly loose, root fragments; 17": Yellowish	3.0
1016126 60 10": As Above; 4": Reddish brown, fine to medium SAND, with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016127 60 Olive brown, fine to medium SAND with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose  1016128 60 Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff  12 1016129 100 As Above  1016130 100 As Above  Bottom of Boring at 15.0'	‡ †	1016124	90		medium Sand, trace(+) coarse sand, trace(-) Silt, very	1.8
with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose    1016127   60   Olive brown, fine to medium SAND with Silt, little coarse Sand, trace(-) fine Gravel, wet, loose    1016128   60   Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff    12   1016129   100   As Above		1016125	60			3.0
Sand, trace(-) fine Gravel, wet, loose	‡	1016126	60			11.0
1016129   100   As Above   1016130   100   As Above   16   Bottom of Boring at 15.0'	+8	1016127	60			3.8
1016129 100 As Above  1016130 100 As Above  Bottom of Boring at 15.0'	† † †	1016128	60			2.1
Bottom of Boring at 15.0'	+12	1016129	100		As Above	2.0
-16 	†	1016130	100		As Above	1.9
	16				Bottom of Boring at 15.0'	
24	20					
	24					
	<u></u>					
Comments: Borehole backfilled with bentonite chips upon completion.	Comments	s: Boreho	le backfi	illed with be	entonite chips upon completion.	

Project: X-401 Area LEA Comm No: 68TR656 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Large Bore Groundwater Observations:
Depth: NM At:
Depth: At:

Hours

**Start Date** 7/22/96 **End Date** 7/22/96

Boring ID

NK-SB-37

L. Bianchi Logged By:

Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Fasting:

Depth:	F	At:	Hours	₹ Easting:	
	San	ple Informa	ation	Sample Description	ſ
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1016114	100		5": Dark brownish grey, fine SAND and SILT, trace medium Sand, moist, slightly dense, root fragments; 18": Yellowish brown, fine SAND, little medium Sand, trace Silt, moist,	0.4
<b>T</b>	1016115	100		Light, fine SAND, trace(+) Silt, trace(-) medium Sand, very moist, loose (dark yellow banded areas from 17" to 20")	1.8
<b>+4</b> +	1016116 1016117	90		4": As Above, wet; 5": Dark olive brown, fine SAND and SILT, trace(-) medium Sand, wet, slightly loose; 11": Light grey, fine to medium SAND, little coarse Sand, trace Silt,	3.3 4.0
† †	1016118	90		Olive brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, fine Gravel, wet, loose	24.0
<del>-8</del>	1016119	25	. <u>.</u>	3": As Above; 3": Brown, fine SAND and SILT, little medium Sand, trace(-) coarse Sand, wet, slightly loose	6.2
† † †	1016120	25		3": As Above; 3": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff	5.1
<b>-12</b>	1016121	90		As Above	4.7
‡	1016122	90		As Above	4.3
16				Bottom of Boring at 15.0'	
20					
24					
+					
Comments	: Boreho	le backf	illed with be	entonite chips upon completion.	



Project: X-401 Area LEA Comm No: 68T 68TR656 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Large Bore

Sampling Method: Large Groundwater Observations: Depth: NM At: Depth: At:

**Start Date** 7/22/96 **End Date** 7/22/96

**Boring ID** 

**NK-SB-38** 

Logged By: L. Bianchi
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation: J. Klapheke

Depth:		At:	Hours	Easting:	
	San	ple Inform	ation	Sample Description	I
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1016131	100		9": Dark brown, fine SAND and SILT, some medium Sand, moist, slightly loose, root fragments; 9": Light brown, fine SAND, some Silt, trace medium Sand, moist, slightly dense; 5": Dark brown/black, fine SAND and SILT, some medium Sand, moist, loose  Yellowish brown, fine SAND, little medium Sand, trace Silt,	3.9
+4	1016320	60		very moist, loose Yellowish grey, fine SAND, little medium Sand, trace Silt, wet, loose	32.0
	1016321	60		Dark olive grey, fine SAND, with Silt, little medium Sand, wet, moderately loose	1000+
-8	1016322	60		Light reddish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	250
‡	1016323	60		As Above	68.0
12				No Recovery	
‡				No Recovery	
16				Bottom of Boring at 15.0'	
÷ 20					
Comments	Roreho	ie backf	illed with he	entonite chips upon completion.	<u> </u>
Comments.	• POLOUR	io Dackii	471U1 DE	ontonite chips apon completion.	*

Project: X-401 Area 68TR656 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Large Groundwater Observations: Large Bore

Depth: NM

At:

Hours

Start Date 7/19/96 **End Date** 7/19/96

Boring ID

**NK-SB-39** 

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:	At: Hours		Hours	₹ Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ļ°	1016105	100		Dark brown, black, fine SAND, some medium Sand and Silt, trace(-) medium Sand, moist, loose, root fragments	2.5	
† † +	1016106	100		8": As Above; 15": Dark yellowish grey, fine SAND, trace medium Sand, trace(+) Silt, wet, loose	0.8	
+4	1016107	100		Light pinkish grey, fine SAND, trace medium Sand, trace(-) Silt, wet, loose	7.4	
‡	1016108	100		5": As Above; 18": Brown, fine Sand, with Silt, trace medium Sand, wet, loose	110.0	
	1016109	100		20": Olive brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, fine Gravel, wet, loose; 3": Olive grey, fine SAND, little medium Sand, trace(+) Silt, wet,	38.0	
† 	1016110	100		loose 10": As Above; 13": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff	7.1	
+12	1016111	100		As Above	1.9	
Ŧ	1016112	100		As Above	1.2	
				Bottom of Boring at 15.0'		
24 Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.		

Project: X-401 Area LEA Comm No: 68TR656 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Large Bore

**Groundwater Observations:** 

Depth: NM Hours Start Date 7/19/96 **End Date** 7/19/96

Boring ID

**NK-SB-40** 

Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:	At: Hours		Hours	Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
T °	1016088	100		Dark brown/black, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	0.9	
‡	1016089 1016090	100		10": As Above; 13": Yellowish grey, fine SAND, trace medium Sand, trace Silt, wet, loose	2.6 2.5	
+4	1016091	100		Pinkish grey, fine SAND, trace medium Sand, trace(-) Silt, wet, loose	2.0	
† †	1016092	100		7": As Above; 5": Pinkish grey, medium to coarse SAND, little fine Sand, trace Silt, wet, loose; 11": Brown, fine SAND, with Silt, trace medium Sand, wet, loose	43.0	
**************************************	1016093	100		19": Olive brown, medium SAND, some fine Sand, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose; 4": Olive grey, fine SAND, little medium Sand, trace	4.0	
<b>†</b>	1016094	100		Silt, wet, slightly loose 6": As Above; 17": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff	2.4	
+12	1016095	100		As Above	2.0	
Ī	1016096	100		As Above	1.8	
16				Bottom of Boring at 15.0'		
20						
-24						
1					ŀ	

Project: X-401 Area 68TR656 LEA Comm No: Client: Pratt & Whitney East Hartford, CT Location:

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Large Bore

Hours

Groundwater Observations:
Depth: NM At:

tart Date 7/19/96 **End Date** 7/19/96

**Boring ID** 

**NK-SB-41** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:	1	At:	Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
†°	1016097	100		Dark brown/black, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	2.9	
‡	1016098	100		6": As Above; 17": Yellowish grey, fine SAND, trace(-) medium Sand, trace(-) Silt, wet, loose	0.8	
<b>4</b> -	1016099	100		Brownish (pinkish) grey, fine SAND, trace medium Sand, trace(-) Silt, wet, loose	2.6	
† † †	1016100	100		Olive grey, medium SAND, some fine Sand, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose	7.1	
+8	1016101	100		As Above	7.4	
+	1016102	100		13": As Above; 10": Olive grey, varved CLAY, trace(+) Silt, trace(-) fine Sand, wet, stiff	2.5	
+12	1016103	100		As Above	1.7	
‡	1016104	100		As Above	1.4	
16				Bottom of boring at 15.0'		
20						
24						
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.	L	

Project: X-314 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LE.
Drilling Method: Geopre
Sampling Method: Macro
Groundwater Observations: LEA Geoprobe Macro core

Depth: NM At: Depth: At:

Hours Hours Start Date 8/12/96 End Date 8/12/96

Boring ID

NK-SB-43

Logged By: L. Bianchi

Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

**Northing:** Easting:

Sample No. 1017115	5 100	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Reddish brown, fine SAND and SILT, trace fine Gravel, moist, loose	(ppm) 0.0
1017115	5 100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Reddish brown, fine SAND and SILT, trace fine Gravel, moist, loose	
1017116			moist, loose	0.0
	6 100			
1017117	1 1		Light brown, fine SAND, little Silt, moist, loose	0.0
1017117 1017118	7 100		Light reddish brown, fine SAND, trace(+) medium Sand, trace(-) Silt, moist, loose	0.0 0.1
1017119	9 100		Light greyish brown, fine SAND, little Silt, moist, loose	3.0
1017120	20 50		As above, (wet at 9.5' to 10.0')	0.0
1017121	21 50		Olive brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	0.0
1017122	22 50		As above	0.0
1017123	23 50		As above	0.0
-			Bottom of boring at 15.0' Note: Olive grey, varved CLAY, trace Silt, wet, stiff, found at 15.0'	
				Borehole backfilled with bentonite chips upon completion.

NK-SB-43

Depth: NM

X-314 Area Project: LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macr Groundwater Observations: Macro core

At:

Hours

Start Date 8/12/96 End Date 8/12/96

Boring ID NK-SB-44

Logged By: L. Bianchi Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	At: Hours \( \frac{\pi}{2} \) Easting:		Easting:			
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1017124			Light reddish brown, fine SAND and SILT, moist, loose	0.0	
†	1017125		·	Yellowish brown, fine SAND, with Silt, moist, loose	0.0	
4	1017126			As above	0.0	
+	1017127			Light greyish brown, fine SAND, little medium Sand, trace Silt, moist, loose	0.4	
8	1017128			Greyish brown, medium SAND, with fine Sand, some coarse Sand, trace Silt, wet at 9.5' - 10.0', loose	0.0	
<del> </del>	1017129			As above, wet	0.0	
12	1017130			As above	0.0	
‡	1017131			As above	0.0	
16				Bottom of boring at 15.0' Note: Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'		
20			·			
-24						
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.		

Printed On: 1/23/1998

Project: X-314 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA

**Drilling Method:** Geoprobe Sampling Method: Macro core

Groundwater Observations: Depth: NM At:

Hours

Start Date 8/12/96 **End Date** 8/12/96

**Boring ID** NK-SB-45

Logged By: L. Bi Drilling Foreman: L. Bianchi

J. Sweeton Geoprobe 5400

Drill Rig: Geopre Surface Elevation:

Depth:	At: Hou		Hours	rs 🔻 Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ļ°	1017132	100		Light reddish brown, fine SAND and SILT, trace fine Gravel, moist, loose	0.0	
† †	1017133	100		Light brown, fine SAND, little Silt, trace medium Sand, moist, loose	0.0	
+4	1017134	100		As above	0.0	
† †	1017135	100		Light greyish brown, fine SAND, little medium sand, trace Silt, moist, loose	0.0	
+8	1017136	100		Greyish brown, medium SAND, with fine Sand, some coarse Sand, trace Silt, wet at ≈9.5' - 10.0'	0.0	
† †	1017137	100		As above ·	0.0	
12	1017138	100		As above	0.0	
‡	1017139	100		As above	0.0	
16				Bottom of boring at 15.0' Note: Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'		
+ 						
24						
- 1	1	1 !				



Project: X-314 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro core

**Groundwater Observations:** 

Depth: NM

At: Hours Start Date 8/13/96 End Date 8/13/96

Boring ID

NK-SB-46

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing: Easting:

medium SAND, some Silt, little coarse Sand, trace fine Gravel, moist, loose  Olive brown, fine SAND and SILT, trace medium Sand, moist, loose  Light olive brown, fine SAND, little Silt, moist, loose	epth:	At: Hours				
Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness   Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness   1017141   100   4": Riprap layer; 19": Dark reddish brown/grey fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, moist, loose   1017142   100   Olive brown, fine SAND and SILT, trace medium Sand, moist, loose   1017143   100   Light olive brown, fine SAND, little Silt, moist, loose   1017144   100   Brown, fine SAND, some Silt, little medium Sand,   100   1017144   100   Brown, fine SAND, some Silt, little medium Sand,   100   1017144   100   Brown, fine SAND, some Silt, little medium Sand,   100   1017144		Sample Inform	ation	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity,		
medium SAND, some Silt, little coarse Sand, trace fine Gravel, moist, loose  1017142 100 Olive brown, fine SAND and SILT, trace medium Sand, moist, loose  Light olive brown, fine SAND, little Silt, moist, loose  1017144 100 Brown, fine SAND, some Silt, little medium Sand,		Sample Recovery No. (%)	Blows /6"			
moist, loose  Light olive brown, fine SAND, little Silt, moist, loose  1017144 100 Brown, fine SAND, some Silt, little medium Sand,	To	1017141 100		medium SAND, some Silt, little coarse Sand, trace fine	0.0	
1017144 100 Brown, fine SAND, some Silt, little medium Sand,	‡	1017142 100			0.0	
	+4	1017143 100		Light olive brown, fine SAND, little Silt, moist, loose	0.0	
+ 1 1 1 1	‡	1017144 100			0.3	
8 1017145 100 As above	+8	1017145 100		As above	0.1	
Dark yellowish brown, fine to medium SAND, with coarse Sand, trace fine Gravel, wet, loose	†	1017146 100			0.0	
12 1017147 50 As above	+12 +	1017147 50		As above	0.0	
1017148 50 As above	I	1017148 50		As above	0.0	
Bottom of boring at 15.0' Note: Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'	16			Note: Olive grey, varved CLAY, trace Silt, wet, stiff		
† 20	-20					
-24	+24					
Comments: Borehole backfilled with bentonite chips upon completion.	omment	: Borehole backi	uned with po	entonite chips upon completion.		

Project: X-312 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro core

Groundwater Observations: Depth: NM

Hours

art Date 8/13/96 End Date 8/13/96

**Boring ID** 

NK-SB-47 L. Bianchi

Logged By: L. Bi Drilling Foreman: Drill Rig: Geopre Surface Elevation: J. Sweeton Geoprobe 5400

Northing: Easting:

Depth:	At:		Hours	Hours Easting:		
<del></del>	Sample Information			Sample Description		
Elevation/ Depth	Sample Recovery Blows No. (%) /6"		Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
†°	1017149	100		Light reddish brown, fine SAND, with Silt, moist, loose	1.3	
‡ ‡	1017150	100		Light reddish brown, medium SAND, with fine Sand, some Silt, moist, loose	1.0	
+4	1017151	100		Light yellowish grey, medium SAND, with fine Sand, some Silt, moist, loose	1.1	
† †	1017152 1017153	100		Grey, fine to medium SAND, some coarse Sand, little Silt, wet, loose	0.7	
+8	1017154	100		As above	0.1	
Į Į	1017155	100		Olive grey, varved CLAY, little Silt, wet, stiff	0.0	
12	1017156	100		As above	0.0	
†	1017157	100		As above	0.0	
16 +				Bottom of boring at 15.0'		
20						
† †						
24						
Comments	Boreho	ole backfi	illed with be	entonite chips upon completion.	_1	



**Groundwater Observations:** 

Depth: NM

Project: X-312 Area Start Date 8/14/96 End Date LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT 8/14/96 **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro core

**Boring ID** 

**NK-SB-48** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing	:
Pacting.	

Deptn: Depth:	NM	At: At:	Hours Hours	Northing: Easting:		
		Sample Informa	ition	Sample Description	J	
Elevation/ Depth	Sample No.	Sample Recovery		Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
T°	101715	100		Brown, fine SAND, with Silt, trace medium Sand, moist, loose, root fragments	0.2	
‡ †	101715	9 100		As above	0.1	
<b>-</b> 4	101716	50 100		As above	0.1	
† †	101716	31 100		Greyish brown, fine SAND, little Silt, trace medium Sand, moist, loose	0.1	
8	101716	32 100		Greyish brown, medium to coarse SAND, some fine Sand, trace Silt, wet, loose	0.2	
‡	101716	33 100		Grey, fine SAND, trace Silt, wet, loose	0.1	
12	101716	34 100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
‡	101716	55 100		As above	0.0	
16				Bottom of boring at 15.0'		
20						
-24	+					
Comme	nts: Bore	ehole backf	illed with be	entonite chips upon completion.		

Project: X-312 Area LEA Comm No: 68TR667		Start Date 8/14/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		End Date 8/14/96	NK-SB-49
Drilling Contractor: LEA Drilling Method: Geoprobe		Drilling Foreman	
Sampling Method: Macro core Groundwater Observations: Depth: NM At:	Hours ₹	Drill Rig: Geo Surface Elevation Northing:	

Depth: Depth:	NM		At: At:	Hours Hours	Northing:	
	T	Sar	nple Informat	tion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (X)	Blows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·		1017168	100		Brown, fine SAND, with Silt, trace medium Sand, moist, loose, root fragments, trace fine Gravel (rip rap)	0.3
‡		1017169	100		As above	0.0
+4		1017170	75		As above	11.0
‡		1017171	75		As above	70.0
8		1017172	100		Brownish, grey, fine to medium SAND, some coarse Sand, trace Silt, wet, loose, petroleum odor	190
‡		1017173	100		As above, petroleum odor	30.0
112	:  -	1017174	100		Olive grey, varved CLAY, trace Silt, wet, stiff	2.0
‡	-	1017175	100		As above	0.0
16	;				Bottom of boring at 15.0'	
- 20	•					
-24						
Comme	nts:	Boreho	ole backfil	led with be	entonite chips upon completion.	<u> </u>

Project: X-312 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Macro core

Sampling Method: Maci Groundwater Observations: Depth: NM At:

**Start Date** 8/14/96 **End Date** 8/14/96

Boring ID NK-SB-50

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Depth: No Depth:		At: At:	Hours Hours	Surface Elevation: Northing: Easting:	
	Sample Information			Sample Description	T
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
·	1017176 1017177	100		Brown, fine SAND, with Silt, trace medium Sand, moist, loose	1.0 0.8
‡	1017178	100		As above	0.0
+4	1017179	10		As above	30.0
+	1017180	10		Olive grey, fine SAND, some Silt, wet, loose	50.0
+8 +	1017181	10		Olive grey, varved CLAY, some Silt, trace fine Sand, wet, stiff	0.2
Ī	1017182	10		Olive grey, varved CLAY, trace Silt, wet, stiff	0.1
12	1017183			As above	0.0
‡	1017184			As above	0.0
16 + + +				Bottom of boring at 15.0'	
20					
24					
+					

Depth: NM

Project: North Klondike Soil Piles LEA Comm No: 68TR656 Client: Pratt & Whitney Location: East Hartford, CT Hand Auger **Drilling Contractor: Drilling Method:** Sampling Method: **Bucket Aug Groundwater Observations:** 

Hours

Start Date 8/8/96 **End Date** 8/8/96

**Boring ID** 

NK-SB-51

Logged By: F. Postma

Drilling Foreman: B.
Drill Rig: Hand Auger
Surface Elevation: B. Tomicic

Northing: Easting:

Depth: N		rc: \t:	Hours	Fasting:	
	San	ple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1016789	90		Pale yellow, fine SAND, little medium Sand, loose, moist, Silt inclusions	7.8
‡	1016790	100		12": As Above; 12": Reddish brown, fine SAND, little Silt, moderately dense, moist	17.3
+4	1016791	100		Reddish grey, fine SAND, some Silt, dense, moist to very moist	1.8
‡	1016792	100		As above	0.0
				Bottom of Boring at 8'	
Į Į					
<u>+</u> 12				·	
†					
16					
+					
20					
<u> </u>					
24					
Comments	- Pareta	la baaksi	lad with be	entonite chips upon completion.	1

Project: North Klondike Soil Piles Start Date Boring ID LEA Comm No: 68TR656 8/8/96 **End Date** Client: Pratt & Whitney **NK-SB-52** Location: East Hartford, CT 8/8/96 Drilling Contractor: Drilling Method: Sampling Method: Logged By: F. Postma Drilling Foreman: B. Drill Rig: Hand Auger Surface Elevation: LEA Hand Auger Bucket Auger **B.** Tomicic

**Groundwater Observations:** Depth: NM At: Northing:

Depth:		At:	Hours	Easting:		
	San	nple Informat	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
	1016793	100		Pale yellow, fine SAND, trace medium Sand, trace(-) Silt, loose, moist, brick fragments	0.0	
#	1016794	100		Yellowish red, fine SAND, little Silt, moderately dense, moist	0.0	
<b>†</b> 4	1016795	100		As above	0.2	
	1016796	100		Pale yellow to yellowish olive, fine SAND, little medium Sand, loose, moist, brick fragments	0.0	
+8	<del></del>			Bottom of Boring at 8'	<del> </del>	
‡						
12						
‡						
16						
‡						
Ī			·			
20						
‡						
24						
+ 1		1			1	

Project: Explosives Storage Area Add. Invest. Start Date **Boring ID** LEA Comm No: 68VC616 10/15/96 Client: Pratt & Whitney **End Date** NK-SB-205 East Hartford, CT Location: 10/15/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Sampling Method: Geoprobe 5400 Macro core Drill Rig: Surface Elevation: **Groundwater Observations:** Depth: NM Northing: Hours At: Depth: Easting: Hours At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows 6 Sample No. Moisture, Sorting, Sphericity, Angularity, (보) (ppm) Sedimentary Structures, Density, Cohesiveness 1019283 100 0.1 5": Processed stone; 6": Dark brown, fine to medium SAND, little Silt, moist, loose; 13": Strong brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, moist, loose 1019284 100 0.1 As above 1019285 50 0.1 As above, very moist 1019286 0.0 50 As above, wet 1019287 100 0.0 18": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff 0.0 1019288 100 As above Bottom of boring at 12.0' 16 20 24 Borehole backfilled with bentonite chips upon completion. Comments:

Printed On: 1/23/1998

Project: Explosives Storage Area Add. Invest.

LEA Comm No: 68VC616
Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LEA

Start Date
10/15/96
End Date
10/15/96
NK-SB-206

Drilling Contractor: LEA

Drilling Method: Geoprobe
Sampling Method: Macro core
Groundwater Observations:

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Groundwater Observations:

Depth: NM At: Hour Northing:
Depth: At: Hours + Easting:

лерии.		<b>A</b> t.	Hours	Totaling.		
	Sample Information			Sample Description		
levation/ lepth	Sample No.	Recovery (४)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
10	1019289	100		5": Processed stone; 3": Dark brown, fine SAND, with Silt, trace medium Sand, moist, slightly stiff; 16": Strong brown, fine to medium SAND, trace Silt, moist, loose	0.0	
‡	1019290	100		As above	0.0	
4	1019291	50		Strong brown, fine SAND, little Silt, very moist, loose	3.3	
† †	1019292	50		As above, wet	2.5	
+ 8 +	1019293	100		18": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff		
† †	1019294	100		As above		
12				Bottom of boring at 12.0'		
16						
+						
20						
+24						
<u> </u>				entonite chips upon completion.		

Comments: Borehole backfilled with bentonite chips upon completion.

Project: Explosives Storage Area Add. Invest. Start Date **Boring ID** 68VC616 10/15/96 LEA Comm No: Client: Pratt & Whitney **End Date** NK-SB-207 Location: East Hartford, CT 10/15/96 L. Bianchi **Drilling Contractor:** LEA Logged By: Drilling Method: Geoprobe Drilling Foreman: J. Sweeton Drill Rig: Sampling Method: Macro core Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing: Depth: Hours Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1019295 100 0.9 4": Cement; 6": Subbase; 14": Olive brown, fine to medium SAND, trace Silt, moist, loose 1019296 100 0.1 As above 1019297 100 0.9 Strong brown, fine SAND, little Silt, trace medium Sand, very moist, loose 1019298 100 0.2 As above, wet 1019299 100 0.1 10": As above; 14": Olive grey, varved CLAY, trace Silt, wet, stiff 1019300 100 0.0 As above Bottom of boring at 12.0' orinted On: 1/23/1998 16 20 24 Borehole backfilled with bentonite chips upon completion. Comments:



Orilling Controlling Meanpling Meanp	ethod: G Method: ter Observa M /	At: At:	Hours Hous	Logged By: L Bianchi Drilling Foreman: John Sweete Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:  Sample Description	on
levation/ epth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019303	100		10": Brown, fine SAND and SILT, little medium Sand, trace coarse Sand, moist, loose, root fragments; 14": Strong brown, fine SAND, with medium Sand, trace Silt, moist,	0.0
‡	1019304	100		loose As above	0.2
+4	1019305	100		As above, wet	0.7
<b>†</b>	1019306	100		As above	2.0
‡8 ‡	1019307	100		7": As above; 17": Olive grey, varved CLAY, trace Silt, stiff, wet	0.2
+	1019308	100		As above	0.2
+12 16 20				Bottom of boring at 12.0'	
24 Comments	: Boreho	le backfil	ed with be	ntonite chips upon completion.	

Project: Explosives Storage Area Add. Invest. **Start Date Boring ID** LEA Comm No: 68VC616 10/16/96 Client: Pratt & Whitney **End Date** NK-SB-209 Location: East Hartford, CT 10/16/96 **Drilling Contractor:** LEA **Drilling Method:** Geoprobe Jon Sweeton

Logged By: L Bianchi
Drilling Foreman: Jon Sy
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: Sampling Method: Macro core **Groundwater Observations:** Depth: NM Depth: At: Fasting: Hours

Depth:		At:	Hours	₹ Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
,	1019309	100		12": Dark brown, fine SAND and SILT, trace medium Sand, moist, loose, root fragments; 12": Strong brown, fine SAND, some Silt, trace medium Sand, moist, loose	0.0
‡	1019310	100		As above	0.1
<b>+</b> ⁴ +	1019311	100		As above, wet	0.2
† + +	1019312 1019313	100		As above	1.1
8	1019314	100		5": As above; 19": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
<del>-</del> +	1019315	100		As above	0.1
+12 +				Bottom of boring at 12.0'	
16					
20					
-24					
Comments				entonite chips upon completion.	

Project: Explosives Storage Area Add. Invest.

LEA Comm No: 68VC616
Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LEA

Start Date
10/16/96
End Date
10/16/96
NK-SB-210

Logged By: L Bianchi

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro core
Groundwater Observations:

Logged By: L Bianchi
Drilling Foreman: Jon Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Depth: NM At: Hours Hours Hours Easting:

Depth:	iii I	At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019316	100		7": Dark brown, fine SAND and SILT, moist, loose, root fragments; 17": Strong brown, fine SAND, some Silt, little medium Sand, very moist, loose	0.0
+ +	1019317	100		Strong brown, fine SAND, little Silt, wet at ≈ 3.5', loose	0.1
<b>+4</b>	1019318	100		As above	0.0
‡ +	1019319	100		18": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
8					
†					
12					
16					
+					
<del>-</del> 20					
† + -				·	
24				•	

Comments: Borehole backfilled with bentonite chips upon completion.

Explosives Storage Area Add. Invest. Project: Start Date **Boring ID** LEA Comm No: 68VC616 10/17/96 Client: Pratt & Whitney **End Date** NK-SB-211 Location: East Hartford, CT 10/17/96 **Drilling Contractor:** L Bianchi LEA Logged By: **Drilling Method:** Drilling Foreman: John Sweeton Geoprobe Geoprobe 5400

Drill Rig: Sampling Method: NM Surface Elevation: Groundwater Observations: Northing: Depth: Hou Easting: Hours Depth: At:

Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1019322 100 0.0 7": Dark brown, fine SAND and SILT, little medium Sand, moist, slightly dense, rip rap; 17": Strong brown, fine to medium SAND, little Silt, moist, loose 1019323 100 0.1 Strong brown, fine SAND and SILT, trace(-) medium Sand, moist, slightly stiff 1019324 100 30.0 As above 0.7 1019325 1019326 100 As above, wet 1019327 100 10": As above; 14": Olive brown, fine to medium SAND, little Silt, trace(-) coarse Sand, wet, loose 1019328 100 4.9 3": As above; 21" Olive grey, varved CLAY, trace Silt, wet, stiff 12 Bottom of boring at 12.0' 16 20 24

Borehole backfilled with bentonite chips upon completion. Comments:

Project: Explosives Storage Area Add. Invest. LEA Comm No: 68VC616

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro core

**Groundwater Observations:** Depth: NM

At: Hours Start Date 10/17/96 **End Date** 10/17/96

**Boring ID** 

NK-SB-212

Logged By: L Bianchi

Drilling Foreman: John Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	4	At:	Hours	Easting:	
	San	nple Informs	ition	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1019329	100		3": Cored concrete; 7": Subbase; 14": Strong brown, fine to medium SAND, little Silt, moist, loose	0.1
‡	1019330	100		Strong brown, fine SAND and SILT, very moist, slightly stiff	0.1
4	1019331	100		As above	6.6
+	1019332	100		As above, wet	0.1
8	1019333	100		15": As above; 9": Olive brown, fine SAND, with Silt, little medium Sand, wet, loose	1.6
+	1019334	100		5": As above; 19": Olive grey, varved CLAY, trace Silt, wet, stiff	0.4
<b>+12</b>				Bottom of boring at 12.0'	
16					
20					
24					
Comments	: Boreho	ole backf	illed with be	entonite chips upon completion.	

Explosives Storage Area Add. Invest. **Start Date** Project: **Boring ID** LEA Comm No: 10/17/96 68VC616 Client: Pratt & Whitney **End Date** NK-SB-213 Location: East Hartford, CT 10/17/96 Logged By: L. Bianchi
Drilling Foreman: John S
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor: LEA** Geoprobe **Drilling Method:** John Sweeton Sampling Method: Macro core Groundwater Observations: Depth: NM Hours Northing:

Depth:		At:	Hours	Easting:	
	San	nple Informati	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019335	100		9": Dark brown, fine SAND and SILT, some medium Sand, moist, slightly dense, rip rap; 15": Strong brown, fine to medium SAND, some Silt, moist, loose	0.0
‡	1019336	100		Strong brown, fine SAND, with Silt, some medium Sand, trace(-) coarse Sand, moist, loose	0.0
<b>†</b> 4	1019337	100		As above	0.0
†	1019338	100		As above, wet	64.0
+8 +	1019339	100		5": As above; 19": Olive grey, varved CLAY, trace Silt, wet, stiff	1.8
†	1019340	100		As above	0.2
<b>-12</b>				Bottom of boring at 12.0'	
† † † † † †					
20					
24					
†					

Comments:

Borehole backfilled with bentonite chips upon completion.



Project: X-401 LEA Comm No: X-401 Area 68VC614 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Geoprobe

Sampling Method: Macr Groundwater Observations: Macro Core Depth: NM

Drilling Method:

At: Hours **Start Date** 10/30/96 **End Date** 10/30/96

Boring ID NK-SB-214

Logged By: L. Bianchi

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth:	At: Hours		Hours	₹ Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
•	1020828	100		Dark brown, fine SAND, little Silt, trace(+) medium Sand, moist, loose, root fragments	0.0	
†	1020829	100		2": As above; 4": Black, fine SAND and SILT, trace medium Sand, very moist, loose; 17": Grey, fine GRAVEL*, little fine SAND, moist, very loose	0.0	
<b>†</b>	1020830	100		6": As above; 17": Brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.0	
† † †	1020831	100		18": As above; 5": Greyish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose	0.6	
+8	1020832	100		4": As above; 4": Brown, medium to coarse SAND, some fine Sand, little fine Gravel, trace Silt, wet, loose; 15": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
‡	1020833	100		As above	0.0	
12	1020834	100		As above	0.0	
‡	1020835	100	<u></u>	As above	0.0	
16 + + +				Bottom of boring at 15.0'		
+ - - - 24 +						
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	1	



Project: Soil Piles Additional Investigation Start Date Boring ID 68VC620 10/30/96 LEA Comm No: Client: Pratt & Whitney **End Date** NK-SB-215 East Hartford, CT Location: 10/30/96 Logged By: L. Bianchi **Drilling Contractor: LEA** Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Geoprobe 5400 Macro Core Drill Rig: Sampling Method: **Groundwater Observations:** Surface Elevation: Northing: Hou Depth: NM Hours Easting: Depth: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 1020837 100 Dark brown, fine to medium SAND and SILT, trace(-) fine Gravel, moist, loose, root fragments 0.0 1020838 100 As above 1020839 100 1.0 Dark reddish brown, fine to medium SAND, little Silt, moist, 0.0 1020840 100 4": As above; 19": Dark brown, fine SAND and SILT, little medium Sand, wet, loose 1020841 100 0.3 Brown, fine to medium SAND, trace Silt, wet, loose 1020842 100 0.1 Yellowish brown, medium to coarse SAND, some fine Sand, trace Silt, wet, loose 0.2 1020843 100 10": Light brown, fine SAND, trace Silt, wet, loose; 13": Fine to medium SAND, little Silt, wet, loose Printed On: 1/23/1998 1020844 100 Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of boring at 15.0' 16 20

Comments:

24

Borehole backfilled with bentonite chips upon completion

Project: Soil Piles Additional Investigation LEA Comm No: 68VC620 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core

**Groundwater Observations:** 

Depth: NM

Hours ₹

Start Date 10/31/96 End Date 10/31/96

Boring ID

NK-SB-216

L. Bianchi

Logged By: L. Bi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Depth:		At:	Hours	Easting:		
[	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
+ 0	1020847	100	·	Strong brown, fine to medium SAND, some Silt, moist, loose, root fragments	0.0	
‡	1020848	100		Very dark, greyish brown, fine SAND and SILT, moist, loose, root fragments	0.1	
+4	1020849 1020850	100		6": As Above; 17": Yellowish brown, fine SAND, some Silt, moist, loose	0.2	
<u> </u>	1020851	100		4": As Above; 19": Dark brown/black, fine SAND and SILT, moist, loose, root fragments	0.2	
-8	1020852	100		Dark yellowish brown, medium SAND and fine SAND, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet at 9-10', loose	0.2	
‡	1020853	100		Dark yellowish brown, medium to coarse SAND, some fine Sand, little fine Gravel, trace Silt, wet, loose	0.6	
+12	1020854	100		Olive grey, varved CLAY, trace Silt, wet, very stiff	0.2	
Ŧ	1020855	100		As Above	0.3	
16				Bottom of Boring at 15.0'		
			·		-	
24						
<u> </u>				entonite chips upon completion	l	

Depth: NM

Project: Soil Piles Additional Investigation LEA Comm No: 68VC620 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core Groundwater Observations:

Hours ₹

Start Date 10/31/96 End Date 10/31/96

Boring ID NK-SB-217

Logged By: L. Bianchi

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:		At:	Hours	Easting:		
	San	aple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
T °	1020856	75		Brown, fine SAND, some Silt, trace medium Sand, moist, loose	0.0	
†	1020857	75		15": As Above; 2": Black, fine SAND and SILT, moist, slightly loose	0.0	
† <b>4</b>	1020858	100		12": As Above; 11": Yellowish brown, fine to medium SAND, little Silt, wet, loose	0.0	
† † †	1020859	100		10": As Above; 13": Yellowish brown, medium to coarse SAND, some fine Sand, little fine Gravel, trace Silt, wet, loose	54.0	
+8	1020860	100		As Above	0.2	
Ī	1020861	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.3	
12	1020862	100		As Above	0.0	
‡	1020863	100		As Above	0.0	
<del>-</del> 16				Bottom of Boring at 15.0'		
20				·		
-24						
Ť	1	1			1	

Comments:

Borehole backfilled with bentonite chips upon completion

Printed On: 1/23/1998

Geoprobe

**Macro Core** 

Project: Soil Piles Additional Investigation Start Date LEA Comm No: 68VC620 10/31/96 Client: Pratt & Whitney **End Date** Location: East Hartford, CT 10/31/96 Drilling Contractor: LEADrilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: LEA

**Boring ID** NK-SB-218

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

	•	At:	Hours	¥ Northing: <b>Easting:</b>	
Ĺ	Sample Information			Sample Description	T
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1020864	100		Brown, fine SAND, with Silt, trace fine Gravel, moist, loose, root fragments	0.0
#	1020865	100		Brown, fine SAND, with Silt, trace fine Gravel, moist, loose	0.0
+4	1020866	100		As Above	0.0
#	1020867	100		As above, wet	0.0
8	1020868	100		As above	0.0
‡	1020869	100	·	15": As above; 8": Brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	0.0
12	1020870	100		6": As above; 17": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
I L	1020871	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
-24					
‡					

Project: Add. Invest. X312/314 Area Start Date **Boring ID** LEA Comm No: 68VC621 11/13/96 Client: Pratt & Whitney **End Date** NK-SB-222 Location: East Hartford, CT 11/13/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: J. Sweeton **Drilling Method:** Geoprobe Geoprobe 5400 Sampling Method: Macro core/Large bo Drill Rig:

Groundwater Observations: Hours NM At:

Surface Elevation: Northing: Depth: Hours Easting: At: Depth: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1021758 100 0.0 15": Brownish black, fine SAND with Silt, trace medium Sand, moist, loose; 8": Reddish brown, fine to medium SAND, little Silt, moist, loose 1021759 100 0.0 2": As Above; 21": Strong brown, fine SAND, little Silt, trace medium Sand, moist, loose 100

1021760 0.0 Pale brown, fine SAND, little medium Sand, trace Silt, moist, loose Bottom of Boring at 6.0' 12 16 20

Comments: Borehole backfilled with bentonite chips upon completion.



	·	14601011
Project: Add. Invest. X312/314 Area LEA Comm No: 68VC621	Start Date 11/13/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	End Date 11/13/96	NK-SB-223
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core Groundwater Observations:	Logged By: L. Drilling Foreman Drill Rig: Geo Surface Elevation	probe 5400
Depth: NM At: Hours	Northing:	

Depth:		At:	Hours	Easting:		
Elevation/ Depth	Sar	nple Informa	tion	Sample Description		
	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
°	1021761	100		Yellowish brown, fine SAND, some Silt, trace medium Sand, moist, loose, riprap	0.0	
‡	1021762	100		2": As Above; 21": Pale brown, fine SAND, little Silt, moist, loose	0.0	
+4	1021763	100		5": Brown, fine SAND, with Silt, trace medium Sand, very moist; 18": Pale brown, medium SAND, with fine SAND, little coarse Sand, trace Silt, wet, loose	0.1	
1	1021764	100		Grey, medium to coarse SAND, some fine Sand, little Silt, trace fine Gravel, wet, loose	0.1	
+8	1021765	100		12": Grey, fine SAND, trace(+) Silt, trace(-) medium Sand, wet, loose; 11": Olive grey, varved Clay, trace Silt, wet, stiff	0.0	
-	-			As Above, No sample taken		
+12				Bottom of Boring at 12'		
16						
20						
† † †						
24						
Comment	s: Boreho	ole backfi	lled with be	entonite chips upon completion.		



Project: Add. Invest. X312/314 Area Start Date **Boring ID** LEA Comm No: 68VC621 Client: Pratt & Whitney 11/13/96 **End Date** NK-SB-224 Location: East Hartford, CT 11/13/96 Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Geoprobe J. Sweeton Sampling Method: Macro core Groundwater Observations: Depth: NM Northing: Hours At:

Depth:	1	At:	Hours	₹ Easting:	
	Sar	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample Mo.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ް	1021766	100		Strong brown, fine SAND and SILT, moist, loose	0.0
‡	1021767	100		4": As Above; 19": Light brownish grey, fine SAND, trace Silt, trace medium Sand, moist, loose	0.0
+4	1021768	100		2": As Above; 21": Light grey, fine SAND, trace Silt, trace medium Sand, moist, loose	86.0
<b>†</b>	1021769	100		Light grey, medium SAND, with fine Sand, trace Silt, trace coarse Sand, wet, loose	120.0
+8	1021770	100		6": As Above; 17": Grey, fine SAND, some Silt, wet, loose	1.0
<u> </u>	1021771	100		19": As Above; 4": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
12				Bottom of Boring at 12.0'	
16					
-20					
24					
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	<u> </u>

Project: Add. Invest. X312/314 Area LEA Comm No: 68VC621 Client: Pratt & Whitney

Location: East Hartford, CT

LEA **Drilling Contractor: Drilling Method:** Geoprobe Sampling Method: Macro core

**Groundwater Observations:** Depth: NM

At:

Hours

**Start Date** 11/14/96 End Date 11/14/96

**Boring ID** 

NK-SB-225

Logged By: L. Bianchi

Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing:

Depth:	At: Hours		Hours				
[	San	npie Informa	ation	Sample Description			
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
10	1021774	100		21": Brown, fine SAND, some Silt, trace medium Sand, moist, loose, root fragments; 2": Light yellowish brown, fine SAND, trace Silt, trace medium Sand, moist, loose	0.0		
‡	1021775 1021776	100		20": As Above; 3": Light brownish grey, fine SAND, little Silt, trace medium Sand, very moist, loose	0.0		
+4	1021777	100		As Above	0.3		
† †	1021778	100		As Above, hydrocarbon odor	61.0		
8	1021779	100		Greyish brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose, hydrocarbon odor	65.0		
‡	1021780	100		Light brownish grey, fine SAND, with medium Sand, trace coarse Sand, trace Silt, wet, loose	20.0		
+12				Bottom of Boring at 12.0'	·		
16							
† † †							
+20							
+24							
Comments	s: Boreho	ole backf	illed with be	entonite chips upon completion.			

Project: Add. Invest. X312/314 Area
LEA Comm No: 68VC621
Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LEA

Start Date
11/14/96
End Date
11/14/96
NK-SB-226
Logged By: L. Bianchi

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro core
Groundwater Observations:

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Depth: NM At: Hours \( \frac{\pi}{2} \) Northing: Depth: At: Hours \( \frac{\pi}{2} \) Easting:

Depth:		At:	Hours	₹ Kasting:			
	San	ple Informat	tion	Sample Description			
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
10	1021781	100		10": Brown, fine SAND, with Silt, trace medium SAND, moist, loose, riprap from 0-0.5'; 13" Pale brown, fine SAND, little Silt, moist, loose	0.0		
‡	1021782	100		As Above	0.0		
+4	1021783	100		Very pale brown, fine SAND, trace Silt, moist, very loose	0.4		
I I	1021784	100		As Above, wet	0.0		
+8 +	1021785	100		Olive brown, fine SAND with medium Sand, some coarse Sand, little fine Gravel, trace Silt, wet, loose	65.0		
<b>+</b> +	1021786	100		Grey, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	9.0		
+12 +				Bottom of Boring at 12.0'			
+16							
-20							
† † † + 24							
Comments	Rombo	le beckfil	lad with he	entonite chips upon completion.	<u> </u>		

Project: Add. Invest. X312/314 Area LEA Comm No: 68VC621 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Macro
Groundwater Observations:
Denth: NM At: LEA Geoprobe Macro core

**Start Date** 11/14/96 **End Date** 11/14/96

**Boring ID** NK-SB-227

Logged By: L. Bi Drilling Foreman: L. Bianchi J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Elevation/ Depth		nple Informa			
			tion	Sample Description	
	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1021787	100		Strong brown, fine SAND and SILT, trace medium Sand, moist, loose	0.0
‡	1021788	100		8": As Above; 15": Yellowish brown, fine SAND, trace medium Sand, trace Silt, moist, very loose	0.0
+4	1021789	100		As Above	0.2
<b>I</b>	1021790	100	·	As Above, wet ≈7.5'	0.1
-8	1021791	100		Olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	2.6
†  - 	1021792	100		10": As Above; 13": Grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, trace fine Gravel, wet, loose	0.2
12				Bottom of Boring at 12.0'	
†					
16					
20					
‡					
-24					
Comments:				entonite chips upon completion.	

Page 1 of 1 Project: Add. Invest. X312/314 Area Start Date **Boring ID** 68VC621 LEA Comm No: 11/14/96 Client: Pratt & Whitney End Date NK-SB-228 Location: East Hartford, CT 11/14/96 LEA **Drilling Contractor:** Logged By: L. Bianchi Drilling Method: Geoprobe Drilling Foreman: J. Sweeton Sampling Method: Macro core Drill Rig: Geoprobe 5400 Surface Elevation: Groundwater Observations: Depth: NM Northing: Hou At: Depth: At: Hours Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (X) Sedimentary Structures, Density, Cohesiveness 1021793 100 4": Black, fine SAND, with Silt, moist, loose, organic; 19": Brown, fine SAND, little Silt, trace medium Sand, moist, very dense, concrete rubble

(ppm) 0.0 1021794 100 0.0 As Above 100 1021795 0.0 Greyish brown, fine SAND, little Silt, moist, loose 1021796 100 0.0 Olive brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose 1021797 100 0.0 As Above 1021798 100 0.0 18": As Above; 5": Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of Boring at 12.0' 16 20

Comments:

Borehole backfilled with bentonite chips upon completion.



Page 1 of 1 Project: Add. Invest. X312/314 Area LEA Comm No: 68VC621 Start Date Boring ID 11/15/96 End Date Client: Pratt & Whitney NK-SB-229 Location: East Hartford, CT 11/15/96 L. Bianchi **Drilling Contractor:** Logged By: Drilling Foreman: **Drilling Method:** J. Sweeton Geoprobe Sampling Method: Macro core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM Hours Northing: At: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Moisture, Sorting, Sphericity, Angularity, Sample No. (ppm) Sedimentary Structures, Density, Cohesiveness 1021801 100 0.0 2": Asphalt/riprap; 4": Dark brown, fine SAND, with Silt, moist, loose, riprap; 12": Strong brown, fine SAND, little Silt, trace medium Sand, moist, loose; 5": Pale brown, fine SAND and medium SAND, little Silt, trace coarse Sand, 1021802 100 0.1 moist, loose As Above 1021803 75 1.0 Pale brown, fine SAND, little medium Sand, trace Silt, moist, loose 1021804 75 0.0 As Above 1021805 100 0.5 Olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose 1021806 0.0 100 10": As Above; 10": Olive brown, fine to medium SAND, some Silt, wet, loose, 3": Olive grey, varved CLAY, trace Silt, wet, stiff 12 As Above Bottom of Boring at 13.0' 16 20

Comments:

Borehole backfilled with bentonite chips upon completion.

Project: Add. Invest. X312/314 Area Start Date Boring ID 11/15/96 End Date 68VC621 LEA Comm No: Client: Pratt & Whitney NK-SB-230 Location: East Hartford, CT 11/15/96 Logged By: **Drilling Contractor:** L. Bianchi Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: NM At: At: Hours Easting: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blaws Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 1021807 100 Strong brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, moist, loose 1021808 100 0.0 Light brown, fine SAND, some Silt, trace medium Sand, moist, loose 1021809 1021810 75 0.5 Pink, fine SAND, some Silt, moist, loose 1021811 75 Yellow, medium to coarse SAND, with fine Sand, trace(+) a fine Gravel, trace(-) Silt, moist, loose 1021812 100 0.6 6": Yellowish brown, medium SAND, little coarse Sand, trace fine Sand, trace Silt, wet, loose; 17": Grey, fine to medium SAND, little coarse Sand, trace Silt, wet, loose 100 1021813 0.0 22": As Above; 3": Dark yellow, medium to coarse SAND, some fine Sand, trace Silt 12 4": Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of Boring at 12.5' 16 20 24 Borehole backfilled with bentonite chips upon completion.

Project: Add. Invest. X312/314 Area LEA Comm No: 68VC621 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro core

Groundwater Observations: Depth: NM At:

Hours

Start Date 12/16/96 End Date 12/16/96

**Boring ID** 

NK-SB-231

B. Tomicic Logged By:

Drilling Foreman: J. Sw. Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:		At:	Hours	Easting:	
L	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1023647	75		Top 8": Dark brown, fine SAND, trace(-) medium Sand, slightly moist, loose, organics; Bottom 10": Brown, fine SAND, trace(+) medium Sand, slightly moist, loose	0.0
	1023648	100		As Above, trace(-) cobbles	0.0
+4		0		No Recovery	
-	1023649 1023650	83		Greyish brown, fine SAND, trace(+) cobbles, moist, loose, poorly sorted; wet at 7.5'	0.0
-8	1023651	100		Grey, fine SAND, some(+) medium Sand, wet, loose, poorly sorted, odor, staining	30
‡	1023652	100	·	Top 1': As Above, Greyish brown, odor, staining not as apparent; Bottom 1': Brown, fine SAND, wet, loose, poorly sorted	2
<b>†</b> 12	1023653	100		Olive grey, varved CLAY, wet, dense	0.0
16				Bottom of Boring at 13'	
-20					
24			,		
Comments:	Boreho	le backfil	led with be	ntonite chips upon completion.	<u></u>

VCAP X-407 Area Investigation No: 68VC629 Project: **Start Date Boring ID** LEA Comm No: 01/09/97 Client: Pratt & Whitney **End Date** NK-SB-232 Location: East Hartford, CT 01/09/97 **LEA Drilling Contractor:** D. Brisson

Logged By: D. B Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Sampling Method: Macro Core

Groundwater Observations:
Depth: NM At:
Depth: At: Northing: Hours

Depth:	At: Hours		Hours			
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
°	1024465	63		Brown, fine SAND, little medium Sand, trace organics, moist, loose	0	
‡	1024466 1024467	63		Top 12": As Above; Bottom 3": Brown, fine SAND, trace very fine Sand, trace organics, moist, moderately dense	0	
+4	1024468	75		Top 5": As Above; Middle 2": Brown, coarse to fine SAND, trace organics, wet; Bottom 11": Grey, medium to fine SAND, trace(-) coarse Sand, wet	0	
‡	1024469	63		As Above	2	
<b>+</b> 8	1024470	75		Top 8": As Above; Bottom 10": Grey, CLAY, varved, moist, dense	3	
Ī	1024471	75		As Above	4	
12	1024472	100		As Above	2	
†	1024473	100		As Above	0	
16				Bottom of Boring at 16'		
† †						
20						
† †				·		
24						
77-24		1 1			l .	

**Groundwater Observations:** 

Project: VCAP X-407 Area Investigation LEA Comm No: 68VC629 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core

**Start Date** 01/09/97 **End Date** 01/09/97

Boring ID

NK-SB-233

Logged By: D. Brisson

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

)	Surface Elevation: Northing: Easting:	
	Sample Description	
Color, Prima	ry Grain Size, Secondary Grain	

Depth: N! Depth:	M A	tions: At: At:	Hours Hours	Surface Elevation: Northing: Easting:		
	San	nple Informati	on	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1024476	75		Top 10": Brown, fine SAND, trace(-) medium Sand, trace organics and fill material, moist, loose; Bottom 8": Brown, fine to medium SAND, trace organics and fill material,	0	
-	1024477	50		Top 4": As Above; Bottom 8": Brown, fine SAND, trace organics, moist, loose	0	
<b>†</b> 4	1024478	75		Top 10": As Above (wet); Bottom 8": Medium to fine SAND, wet, loose	1	
‡	1024479	75		As Above	4	
8	1024480	75		Top 10": As Above; Bottom 8": Grey, CLAY, wet, dense	7	
‡	1024481	75		As Above	0	
12	1024482	100		As Above	0	
‡	1024483	100		Top 4": Lense of medium to fine SAND, little Clay, wet, loose; Bottom 20": Grey, CLAY, wet, dense	0	
16				Bottom of Boring at 16'		
-20						
† †				<u>.</u>		
-24						
<b>†</b>					1	

Project: VCAP X-407 Area Investigation LEA Comm No: 68VC629 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geopre Sampling Method: Maca Groundwater Observations: Geoprobe Macro Core

Start Date 01/10/97 **End Date** 01/10/97

Boring ID

**NK-SB-234** 

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Groundwater Depth: NM Depth:	1	tions: At: At:	Hours Hours	Surface Elevation: Northing: Easting:	
	San	ple Informati	on	Sample Description	
Slevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1024484	63		Top 3": Topsoil; Middle 6": Brown, fine to medium SAND, trace organics, brick and concrete in sample, moist, loose; Bottom 6": Brown, fine SAND, trace(-) medium Sand, trace	0
	1024485	63		organics, moist, loose, trace very fine Sand and Silt  Top 14": As Above; Bottom 1": Grey, SILT and CLAY, moist, dense	0
+	1024486	75		Top 8": Brown, fine SAND, trace(-) medium Sand, moist to wet, trace organics, loose; Bottom 10": Brown, fine SAND, little medium Sand, wet, loose	20.0
	1024487 1024488	75		Top 14": As Above; Bottom 4": Brown, fine SAND, trace(-) medium Sand, wet, loose	2.0
+8	1024489	75		Top 6": Brown, medium to fine SAND, wet, loose; Middle 10": Brown, fine SAND, trace(-) medium Sand, wet, loose; Bottom 2": Brown, coarse to fine SAND, wet, iron staining,	70
	1024490	75		Cloose  Grey, CLAY, trace fine to very fine Sand, various wet, moderately dense to dense	5.0
+12	1024491	100		As Above	0.0
<b> </b>	1024492	100		As Above	0.0
16				Bottom of Boring at 16'	
20				·	
‡   ‡					
24					
Comments:	Boreho	le backfill	ed with be	entonite chips upon completion.	

VCAP X-407 Area Investigation m No: 68VC629 Start Date Project: **Boring ID** LEA Comm No: 01/10/97 Client: Pratt & Whitney **End Date** NK-SB-235 East Hartford, CT Location: 01/10/97

Drilling Contractor: Drilling Method: Sampling Method: Logged By: D. B Drilling Foreman: LEA D. Brisson J. Sweeton Geoprobe Macro Core Drill Rig: Geoprobe 5400

Groundwater Observations: Depth: NM At: Surface Elevation: Northing: Hours

Depth:	NIVI	At:	Hours	Fasting:	
<del></del>		Sample Informa	tion	Sample Description	Ţ
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T °	1024493	75		Top 10": Grey, medium to fine SAND, trace Gravel and fill material, moist, loose, trace organics; Bottom 8": Brown, fine to very fine SAND, trace organics, moist, dense,	20.0
Į,	1024494	75		strange odor  Top 10": As Above; Bottom 8": Brown, fine SAND, trace medium Sand, moist, dense, 1" lense of grey, very fine Sand and Silt, moist, dense, at bottom of sample	100.0
+	102449	75		Top 6": Brown, fine SAND, trace(+) medium Sand, wet, loose; Bottom 12": Brown, medium to fine SAND, trace(-) coarse Sand, wet, loose	120.0
† †	1024490	3 75		Top 12": As Above; Bottom 6": Brown, fine SAND, trace(-) medium Sand, wet, loose	30.0
***	1024497	7 75		Brown, fine SAND, trace(+) medium Sand, wet, loose	90.0
†	1024498	3 75		Gray, CLAY, trace(-) fine to very fine Sand, varved, wet, moderately dense	5.0
+12   	1024499	100		As Above	0
‡ ‡	1024500	100		As Above	0
I-18	,				
† † †				Bottom of Boring at 16'	
+20					
† ·					
+24					
Comme	nts: Bore	hole backfi	lled with be	entonite chips upon completion.	L

Project: VCAP X-407 Area Investigation LEA Comm No: 68VC629 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core Groundwater Observations: Depth: NM At:

Hours

Start Date 1/10/97 **End Date** 1/10/97

**Boring ID** 

**NK-SB-236** 

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:	''' <i>i</i>	At:	Hours	Easting:	
<del></del> -	San	aple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1024501	63		Top 6": Asphalt and traprock; Bottom 9": Brown, fine SAND, trace(-) very fine Sand, trace organics, moist, loose	0
†	1024502	63	***	Top 10": Brown, fine to very fine SAND, organics, moist, dense; Bottom 5": Brown, fine SAND, trace(-) medium Sand, moist, loose	0
<b>†</b> 4	1024503	75		Top 10": As above (wet); Bottom 8": Brown, fine SAND, little medium Sand, wet, loose	15.0
‡   ‡	1024504	75		As above	10.0
8	1024505	83		Top 12": As above; Bottom 8": Gray, CLAY, trace(-) fine Sand, moist, dense	5.0
†	1024506	83		As above	2.5
12	1024507	100		As above	0
† † †	1024508	100		As above	0
16					
+				Bottom of boring at 16'	
20					
24					
+	-				

Project: VCAP X-407 Area Investigation
LEA Comm No: 68VC629
Client: Pratt & Whitney
Location: East Hartford, CT
Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core
Groundwater Observations:
Depth: NM At: Hours

Start Date 1/13/97 End Date 1/13/97

Boring ID

NK-SB-237

Logged By: D. Brisson
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1024511	50		Top 2": Top soil; Middle 4": Brown, fine SAND, trace(-) coarse Sand and Gravel, moist, loose; Bottom 6": Brown, fine SAND, some Gravel, moist, loose	0
‡	1024512	50		Brown, fine SAND, trace(-) medium to coarse Sand, trace organics, root material in bottom of sample, moist, loose	0
<b>+4</b>	1024513	50		Top 8": Brown, fine SAND, trace(+) medium Sand, trace organics, wet, moderately dense; Bottom 4": Brown, medium to fine SAND, trace organics, wet, loose	30.0
† † †	1024514	50		Brown, medium to fine SAND, wet, loose	3.0
+8	1024515 1024516	63		Top 12": As above; Bottom 3": Grey, CLAY, trace(-) fine SAND, moist to wet, dense	3.0
†	1024517	63		As above bottom 3"	0
+12	1024518	100		As above	0
†	1024519	100		As above	0
16				Bottom of boring at 16'	
20					
24					
Comments	5:				<u>.i</u>

VCAP X-407 Area Investigation m No: 68VC629 Project: LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro Core

**Groundwater Observations:** 

Hours Hours

rt Date 1/13/97 **End Date** 1/13/97

**Boring ID** 

NK-SB-238

Logged By: D. Brisson
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400

J. Sweeton

Surface Elevation:

Depth: NI Depth:		At: At:	Hours Hours	Surface Elevation:  Vorthing:  Easting:	
	Sar	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1024520	75		Top 10": Brown, fine SAND, trace(-) medium Sand, trace organics and backfill, moist, loose; Bottom 8": Brown, fine SAND, very fine Sand, trace organics, moist, dense	0
	1024521	75		Top 10": As Above; Bottom 8": Light brown, fine SAND, moist to wet, loose, VOC, TDH odor	30.0
+4	1024522	76		Top 3": As above; Bottom 15": Brown, fine to medium SAND, trace organics, wet, loose, TPH odor	35.0
<u> </u>	1024523	75		Top 2": Grey, fine SAND, little organics, wet, dense, TPH odor; Bottom 16": As above bottom 15"	7.0
+8	1024524	21		Top 10": Brown, medium to fine SAND, trace(-) coarse Sand, wet, loose; Bottom 5": Grey, CLAY, trace(-) fine SAND, moist, dense	10.0
1	1024525	63		As above bottom 5"	0
12	1024526	100		As above bottom 5"	0
† †	1024527	100		As above	0
+16 - - -				Bottom of boring at 16'	
24					
Comments					

Start Date

**Project:** VCAP X-407 Area Investigation Boring ID LEA Comm No: 68VC629 1/13/97 Client: Pratt & Whitney **End Date** NK-SB-239 Location: East Hartford, CT 1/13/97 **LEA** Logged By: D. Brisson **Drilling Contractor:** J. Sweeton Drilling Method: Geoprobe Drilling Foreman: Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM At: Northing: Depth: At: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0 1024528 75 Top 6": Gray, medium to fine SAND, trace Gravel, trace organics, moist, loose; Middle 6": Yellow red, medium to fine SAND, trace coarse Sand and Gravel, moist, dense; Bottom 6": As above top 6" 1024529 0 Top 2": Concrete; Middle 10": Brown, fine SAND, trace(-) medium Sand, trace organics; Bottom 6": Grey-brown, fine to very fine SAND, trace organics, moist, dense 1024530 75 0 Top 3": As above bottom 6": Middle 2": Lens brown, medium SAND, trace fine Sand, wet, loose; Bottom 15": Grey, medium to fine SAND, trace organics, wet, loose 1024531 75 3.0 Top 10": As above bottom 15"; Middle 3": Grey, fine SAND, trace(-) medium Sand, wet, loose; Bottom 5": As above top 10" 1024532 63 7.0 Top 12": Brown, coarse to fine SAND, trace(-) Gravel, wet, loose; Bottom 3": Grey, CLAY, trace(-) fine Sand, wet, dense 1024533 63 0 As above bottom 3" 100 0 1024534 As above 100 ō 1024535 As above Bottom of boring at 16' 20 24 Comments:

Project: VCAP X-407 Area Investigation **Start Date Boring ID** 68VC629 LEA Comm No: 01/14/97 Client: Pratt & Whitney **End Date** NK-SB-240 Location: East Hartford, CT 01/14/97 **Drilling Contractor:** Logged By: D. Brisson Drilling Method: Geoprobe Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Depth: NM Northing: At: Hours Depth: At: Easting: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1024538 75 Top 10": Grey, fine SAND, trace(-) medium Sand, moist, 0 trace organics, loose, moist; Bottom 8": Brown, fine SAND, trace(-) medium Sand, trace Gravel and Traprock, moist, 50 ō 1024539 Grey, fine SAND, trace(-) medium Sand, moist, loose 1024540 50 0 Grey brown, fine to medium SAND, trace(-) coarse Sand, wet, loose 1024541 1024542 0 75 Top 10": Grey, fine SAND, wet, moderately dense; Bottom 8": Grey brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1024543 75 0 Grey, CLAY, trace(-) fine to very fine Sand, wet, dense 12 1024544 0 As Above 1024545 Ō As Above 16 Bottom of Boring at 16' 20 Comments: Borehole backfilled with bentonite chips upon completion.

z

Page 1 of 1 Start Date Project: X-194 Additional Investigation Boring ID LEA Comm No: 68V7034 1/23/97 Client: Pratt & Whitney nd Date NK-SB-241 Location: East Hartford, CT 23/97 **Drilling Contractor:** Logged By: D. Brisson Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Depth: NM At: Hour Northing: Easting: Depth: At: Hours Sample Information Sample Description Color. Primary Grain Size. Secondary Grain Sizes. Elevation/ Depth Blows Recover Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1025744 83 Top 10": Orange brown, fine SAND, trace (-) medium Sand, moist, loose; Middle 1": Brown, root material, medium to fine SAND, moist, loose; Bottom 9": Orange brown, fine SAND, trace(-) medium Sand, moist 1025745 83 0 Gray brown, fine SAND, moist to wet, moderately dense 1025746 83 As above Bottom of boring at 6' 12 16 20 Boring No: NK-SB-241

Comments:

Borehole backfilled with bentonite chips and hydrated upon completion.

Project: X-194 Additional Investigation rt Date Boring ID 68V7034 LEA Comm No: 1/23/97 Client: Pratt & Whitney **End Date** NK-SB-242 Location: East Hartford, CT 1/23/97 Logged By: D. Brisson
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400 **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe J. Sweeton Macro Core Surface Elevation: **Groundwater Observations:** Hours Depth: NM At: Northing: Hours Depth: At: Easting:

	San	aple Informa	tion	Sample Description	T
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1025747	83		Top 2": Topsoil; Middle 6": Brown, fine SAND, little organic material, moist, dense; Bottom 12": Grey brown, fine SAND, trace organics, moist, moderately dense	0
+	1025748	83		Top 2": As above; Bottom 18": Grey, fine SAND, trace(-) medium Sand, wet, loose	0
+4	1025749	83		As above	0
<del>-</del>				Bottom of boring at 6'	
+ 8					
Ī				·	
12					
<b>†</b> †					
16					
†					
‡					
20					
†					
24					
‡					

Comments:

Borehole backfilled with bentonite chips and hydrated upon completion.



Project: X-194 Additional Investigation **Start Date** Boring ID LEA Comm No: 68V7034 1/23/97 Client: Pratt & Whitney **End Date** NK-SB-243 Location: East Hartford, CT 1/23/97 Logged By: D. Bo Drilling Foreman: D. Brisson **Drilling Contractor:** Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Depth: NM Hours Northing: Hours Depth: Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1025750 100 ō Top 2": Topsoil; 3": Orange brown, medium to fine SAND, trace organics, moist, loose; 3": Brown, fine to very fine SAND, some organic matter, moist, dense; Bottom 16": Alternating bands of brown-grey brown, fine SAND, moist, 1025751 100 0 Grey, fine SAND, trace(-) medium Sand, wet, loose 1025752 83 ō As above Bottom of boring at 6' 12 20 Boring No: NK-SB-243 Borehole backfilled with bentonite chips and hydrated upon completion. Comments:

Start Date Project: X-194 Additional Investigation **Boring ID** 68V7034 1/23/97 LEA Comm No: Client: Pratt & Whitney **End Date** NK-SB-244 1/23/97 East Hartford, CT Location: Logged By: **Drilling Contractor:** D. Brisson LEA Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Northing: Depth: NM Hours At: Hours Easting: Depth: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sampie No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1025753 100 Top 4": Topsoil; Middle 10": Brown, fine to very fine SAND, trace organics, moist, dense; Bottom 10": Grey brown, fine SAND, trace(-) medium Sand, moist, loose 100 ō 1025754 Grey brown, fine SAND, trace medium Sand, wet, loose 0 1025755 100 Orange brown, medium to fine SAND, trace coarse Sand, wet, loose Bottom of boring at 6' 16 20 24 Borehole backfilled with bentonite chips and hydrated upon completion. Comments:

**Groundwater Observations:** 

Depth: NM

Depth:

Project: X-194 Additional Investigation
LEA Comm No: 68V7034
Client: Pratt & Whitney
Location: East Hartford, CT
Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core

At:

At:

Hours

Hours

End Date 1/23/97
Logged Drilling

Logged By: D. Brisson
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:

Easting:

<b>Ի</b> գիա։		AL.	поша	÷ Easting.	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (え)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1025756 1025758	100		Top 6": Orange brown, fine SAND, trace organics, loose; Bottom 18": Brown, fine to very fine SAND, moist, dense	0
‡	1025757	100		Grey brown, fine SAND, trace medium Sand, wet, loose	0
<b>+</b> 4	1025759	100		Orange brown, medium to fine SAND, trace (-) coarse Sand, wet, loose	0
‡				Bottom of boring at 6'	
+8					
‡					
12					
†					
16					
20					
†					

Comments:

Borehole backfilled with bentonite chips and hydrated upon completion.

Project: X-194 Additional Investigation LEA Comm No: 68V7034 **Start Date Boring ID** 1/23/97 End Date Client: Pratt & Whitney **NK-SB-246** Location: East Hartford, CT 1/23/97 Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **LEA Drilling Contractor:** Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe J. Sweeton Macro Core Depth: NM Northing:

Depth: NN Depth:	M A	At: At:	Hours Hours	Northing: Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1025760	83		Top 7": Orange brown, fine SAND, trace organics, loose; Bottom 13": Brown, fine to very fine SAND, moist, dense	0
	1025761	83		Grey brown, fine SAND, trace medium Sand, wet, loose	0
<b>+4</b>	1025762	83		Orange brown, medium to fine SAND, trace (+) coarse Sand, wet, loose	0
				Bottom of boring at 6'	
-8					
‡					
12	·				
16					
20					
- - - -					
- 24					
Comments:	Boreho	le backfi	lled with be	entonite chips and hydrated upon completion	1



Project: X-194 Additional Investigation **LEA Comm No:** 68V7034 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations: Depth: NM At:

Start Date 1/24/97 **End Date** 1/24/97

**Boring ID** 

NK-SB-247

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:		Ăt:	Hours	Easting:	
	San	aple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп
+	1025763	83		Top 10": Dark brown, fine to very fine SAND, little Silt, trace organics, moist, dense; Bottom 10": Orange brown, fine Sand, moist, moderately dense	0
Ī	1025764	83		Top 16": As above bottom 10"; Bottom 4": Orange, brown, fine SAND, trace(+) medium Sand, moist to wet, loose	0
<b>+4</b>	1025765	75		Orange brown, fine to medium SAND, trace coarse Sand, wet, loose	0
‡	1025766	75		Greenish grey, fine SAND, little medium Sand, wet, loose	0
+8	1025767 1025768	100		Top 12": Orange brown, fine to medium SAND, wet, loose; Bottom 12": Grey, CLAY, trace(-) fine to very fine Sand, wet, dense	0
†	1025769	100		As above bottom 12"	0
<b>+12</b>		<u>,                                    </u>		Bottom of boring at 12'	
16					
- 20					
-24					
Comments	: Boreho	la backfil	led with be	entonite chips and hydrated upon completion.	

Project: X-194 Additional Investigation LEA Comm No: 68V7034 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations:

Depth: NM Depth:

At: Hours At: Hours **Start Date** 1/24/97 End Date 1/24/97

Boring ID NK-SB-248

Logged By: D. Brisson
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing: Easting:

San	ple Informa	ition.	Sample Description	
Sample No.	Recovery (X)	Blove 16°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1025770	75		Top 4": Brown, fine to very fine SAND, trace(-) Silt, trace(+) organics, moist, dense; Bottom 14": Grey, fine SAND, trace organics, moist, dense	0
1025771	75		Orange brown, fine SAND, trace(-) medium Sand, moist, loose, wet on bottom 3"	0
1025772	83		Top 10": As above; Bottom 10": Grey, fine SAND, wet, moderately dense	Ó
1025773	83		Top 13": Grey, fine SAND, trace(+) medium Sand, trace(-) coarse Sand, wet, loose; Bottom 7": Grey, fine SAND, wet, dense	0
1025774	83		Top 14": As above; Bottom 6": Grey, CLAY, trace (-) fine Sand	0
1025775	83		As above bottom 6*	0
			Bottom of boring at 12'	
	1025770 1025771 1025772 1025773	1025770 75  1025771 76  1025772 83  1025773 83  1025774 83	1025770 75  1025771 75  1025772 83  1025773 83  1025774 83	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness

Project: X-194 Additional Investigation LEA Comm No: 68V7034

Hours

Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core

Depth: NM At:

1/24/97 **End Date** 1/24/97

**Boring ID** NK-SB-249

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Kacting.

**Start Date** 

Depth:		At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	]
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1025776	63		Top 6": Orange brown, fine SAND, iron staining present, moist, loose; Bottom 9": Grey, brown, fine SAND, little medium Sand, moist to wet, loose	0
‡	1025777	63		As above bottom 9"	0
+4	1025778	75		Top 8": Orange brown, fine to medium SAND, trace(+) medium Sand, wet, loose; Bottom 10": Grey, fine SAND, trace(-) medium Sand, wet, moderately dense	0
	1025779	76		Grey, fine SAND, trace(+) medium Sand, wet, loose	0
+8	1025780	83		Top 8": Red brown, medium to fine SAND, trace(-) coarse Sand, wet, loose; Bottom 12": Grey, CLAY, trace(-) fine Sand, wet, dense	0
<u> </u>	1025781	83		As above bottom 12"	0
+12 +				Bottom of boring at 12'	
16					
-20					
24				·	
Comments	<u> </u>		III - d - Jak k	entonite chips upon completion.	

Project: X-410 Drain Pipe Add. Inv. **Start Date Boring ID** LEA Comm No: 68V7035 1/27/97 Client: Pratt & Whitney **End Date** NK-SB-250 Location: East Hartford, CT 1/27/97 **Drilling Contractor:** LEA Logged By: Dave Brisso Drilling Method: Drilling Foreman: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: **Macro Core** Surface Elevation: **Groundwater Observations:** Depth: NM Hours Northing: At: Depth: At: Hour Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (pom) Sedimentary Structures, Density, Cohesiveness 1025694 83 Top 6": Bituminous concrete and traprock; Middle 8": Brown to grey brown, fine SAND, trace very fine Sand, frozen, dense; Bottom 6": Orange brown, fine SAND, trace medium Sand, moist, loose 83 1025695 0 Top 6": As above (bottom 6"); Bottom 14": Orange brown, fine SAND, trace(-) medium Sand, moist to wet (bottom 4"), 1025696 75 Top 10": Grey fine SAND, trace(-) medium Sand, wet, loose; 1025697 Bottom 8": Red brown to gray brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1025698 75 0 Top 5": As above bottom 8"; Bottom 13": Olive grey, medium to fine SAND, wet, loose 1025699 83 0 Top 12": Orange brown, fine SAND, trace(-) medium Sand, wet, loose; Bottom 8": Grey CLAY (varved), trace(-) fine Sand 83 1025700 As above, bottom 8" 12 Bottom of boring at 12' 16 20 24 Borehole backfilled with bentonite chips upon completion.

X-410 Drain Pipe Add. Inv. nm No: 68V7035 Project: LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

LEA **Drilling Contractor: Drilling Method:** Geoprobe

Macro Core

Hours

Sampling Method: Groundwater Observations: At:

Depth: NM Depth:

Start Date 1/27/97 **End Date** 1/27/97

Boring ID NK-SB-251

Logged By: Dave Brisso Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Easting:

Depth: N		At: At:	Hours Hours	Northing:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (え)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1025701	76		Top 8": Orange brown, fine SAND, trace(-) medium Sand, moist, loose; Middle 4": Grey, fine SAND, rubble and fill material; Bottom 6": Dark brown, fine SAND, some very fine Sand and Silt, organics, moist, dense	0
†	1025702	75		Top 12": As above bottom 6": Bottom 6": Orange brown, fine SAND, trace(+) very fine Sand, trace organics, moist, dense	0
<b>T</b> *	1025703	75		Top 10": Grey, fine SAND, trace(-) medium Sand, wet, loose; Bottom 8": Orange brown, medium to fine SAND, trace(-) coarse Sand, wet, loose	
‡ + +	1025704	75		Top 8": As above bottom 8": Bottom 10": Olive grey, medium to fine SAND, wet, loose	
+8	1025705	75		As above; bottom 10"	
† †	1025708	75		Top 6": As above; Bottom 12": Grey CLAY, trace(-) fine SAND, varved	
+12 + +				Bottom of boring at 12'	
16			·		
20					
+24				-	
‡					

Depth: NM

Project: X-410 Drain Pipe Add. Inv. LEA Comm No: 68V7035 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations:

At:

Hours

**Start Date** 1/27/97 End Date 1/27/97

**Boring ID** NK-SB-252

Logged By: Dave Brisso Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton Surface Elevation:

Northing: Easting:

Depth:		At: At:	Hours	Fasting:	
	San	ple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
°	1025707	75		Top 8": Dark brown, fine to very fine SAND, trace organics, moist, dense; Bottom 10": Orange, brown, grey to grey brown, fine SAND, trace(-) very fine Sand, moist, dense	
‡	1025708	76		Top 10": As above bottom 10"; Bottom 8": Grey brown, fine SAND, trace(+) medium Sand, moist, loose	
+4	1025709	75		Top 10": As above bottom 8"; Bottom 8": Olive grey, fine SAND, trace(-) coarse Sand, wet, loose	
† †	1025710	75		As above	
+8 1	1025711	100		Top 14": Orange brown, medium to fine SAND, wet, loose; Bottom 10": Grey, CLAY, trace(-) fine Sand (varved)	
Ī	1025712	100		As above	<u></u>
+12				Bottom of boring at 12'	
Ŧ					
‡					
16					
Į Į					
‡					
+20					
‡					
124					

z

X-410 Drain Pipe Add. Inv. Project: 68V7035 LEA Comm No: Client: Pratt & Whitney

East Hartford, CT Location: LEA

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

**Groundwater Observations:** Depth: NM

Hours At:

**Start Date** 1/28/97 **End Date** 1/28/97

Boring ID

NK-SB-253

Dave Brisso

Logged By: Dave Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

8	Sample No. 1025716 1025717 1025718 1025719 1025720 1025721	Ple Informa Recovery (X) 42 42 83 100	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Dark brown, fine to very fine SAND, trace organics, fill material (concrete, brick) in sample, moist to frozen top 8" dense  As above, moist  Top 15": Grey, fine SAND, trace(+) medium SAND, wet, loose; Bottom 5": Grey, fine SAND, wet, moderately dense  Olive grey, fine to medium SAND, trace(-) coarse Sand, wet, loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace coarse Sand, wet, loose	(ppm) 0
Depth	1025717 1025717 1025718 1025719 1025720	42 42 83 83	Blows	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Dark brown, fine to very fine SAND, trace organics, fill material (concrete, brick) in sample, moist to frozen top 8" dense  As above, moist  Top 15": Grey, fine SAND, trace(+) medium SAND, wet, loose; Bottom 5": Grey, fine SAND, wet, moderately dense  Olive grey, fine to medium SAND, trace(-) coarse Sand, wet, loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace	0
8	1025717 1025718 1025719 1025720	83 83		material (concrete, brick) in sample, moist to frozen top 8" dense  As above, moist  Top 15": Grey, fine SAND, trace(+) medium SAND, wet, loose; Bottom 5": Grey, fine SAND, wet, moderately dense  Olive grey, fine to medium SAND, trace(-) coarse Sand, wet, loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace	0
8 1	1025719 1025720 1025721	83		Top 15": Grey, fine SAND, trace(+) medium SAND, wet, loose; Bottom 5": Grey, fine SAND, wet, moderately dense  Olive grey, fine to medium SAND, trace(-) coarse Sand, wet, loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace	0
12	1025720 1025721	83		Olive grey, fine to medium SAND, trace(-) coarse Sand, wet, loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace	0
12	1025721	100		loose, some iron staining present.  Greenish grey to orange brown, fine to medium SAND, trace	
12					0
12	1025722	100			
+ + + + + + + + + + + + + + + + + + + +		1		Grey, CLAY, trace(-) fine SAND (varved)	0
+ + + + + + + + + + + + + + + + + + + +				Bottom of boring at 12'	
I.,					
10					
20					
+				·	
24					

Project: X-410 Drain Pipe Add. Inv. LEA Comm No: 68V7035 Client: Pratt & Whitney Location: East Hartford, CT LEA

**Start Date** 1/28/97 End Date 1/28/97

**Boring ID NK-SB-254** 

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** 

Depth: NM

Hours

Logged By: Dave Brisso Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Easting

Depth:	A	At:	Hours	₹ Easting:	
	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
+	1025723	83		Top 10": Dark brown, fine to very fine SAND, trace organics, wood (ash), moist, dense; Bottom 10": Orange brown, fine SAND, moist, loose	
†	1025724	83		Grey, fine SAND, trace(-) medium Sand, wet, loose	
+4	1025725	75		Grey, fine SAND, little medium Sand, wet, loose	
	1025726	75		Orange brown, medium to fine SAND, trace(+) coarse Sand, wet, loose	
8	1025727	100		Top 8": As above; Bottom 16": Grey CLAY, trace(-) fine SAND, varved, wet, dense	
+	1025728	100		As above, bottom 16*	
+12 +			·	Bottom of boring at 12'	
16					
20					
24					
Comments	Paraha	le beakf	illad with he	entonite chips upon completion.	

Project: X-410 Drain Pipe Add. Inv. LEA Comm No: 68V7035 Client: Pratt & Whitney Location: East Hartford, CT LEA **Drilling Contractor:** 

Drilling Method: Geoprobe Sampling Method: Maci Groundwater Observations: Macro Core

Depth: NM

At:

Hours

**Start Date** 1/28/97 **End Date** 1/28/97

**Boring ID** 

NK-SB-255

Logged By: **Dave Brisso** 

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Easting:

Depth:	· · · · · · · · · · · · · · · ·	At:	Hours	₹ Easting:	
	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T o	1025729	83		Top 8": Dark brown, fine to very fine SAND, trace organics, moist, dense; Bottom 12": Orange brown, fine SAND, trace very fine Sand, moist, loose	0
Ī	1025730	83		Grey, fine SAND, trace very fine Sand, moist to wet, loose	0
+4	1025731	83		Top 8": As above; Middle 4": Grey, fine SAND, trace(+) medium Sand, wet, loose; Bottom 8": Grey, fine to medium SAND, trace(+) coarse Sand, wet, loose	0
	1025732	. 83		Top 15": As above bottom 8": Bottom 5": Grey, fine SAND, trace(-) medium Sand, wet, loose	0
	1025733	100		Top 12": Grey, medium to fine SAND, trace(+) coarse Sand, wet, loose; Bottom 12": Grey, CLAY, trace(-) fine SAND, varved	0
‡		100		Gray, CLAY, trace(-) fine Sand, varved	0
+12 +				Bottom of boring at 12'	
16					
24					
Comments				entonite chips upon completion.	

Project: X-410 Add. Invest. Oil RA LEA Comm No: 68V7041 Start Date **Boring ID** 03-04-97 Client: Pratt & Whitney **End Date** NK-SB-256 Location: East Hartford, CT 03-04-97 Logged By: DCE Drilling Foreman: LEA DCB/JES **Drilling Contractor:** Drilling Method: Sampling Method: GeoProbe J. Sweeton Drill Rig: GeoProbe 5400 MC **Groundwater Observations:** Surface Elevation: Depth: NR At: Hours Northing:

Sample No. 027078 027080 027079 027081	75 75 83	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 6": Topsoil, trace Traprock; Middle 18": Grey, fine SAND, grading to orange-brown, fine Sand, trace very fine Sand, moist, loose; Bottom 2": Grey, very fine SAND and SILT, trace organics, wet, loose Top 10": Grey, fine SAND, trace organics, moist, modertely dense (slight TPH odor); Bottom 8": Brown-red-brown, fine SAND, trace(-) medium Sand, moist to wet, loose	(ppm) 0
027078 027080 027079 027081	75 75 75 75 83	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 6": Topsoil, trace Traprock; Middle 18": Grey, fine SAND, grading to orange-brown, fine Sand, trace very fine Sand, moist, loose; Bottom 2": Grey, very fine SAND and SILT, trace organics, wet, loose  Top 10": Grey, fine SAND, trace organics, moist, modertely dense (slight TPH odor); Bottom 8": Brown-red-brown, fine SAND, trace(-) medium Sand, moist to wet, loose	0
027080 027079 027081	76 75 83		SAND, grading to orange-brown, fine Sand, trace very fine Sand, moist, loose; Bottom 2": Grey, very fine SAND and SILT, trace organics, wet, loose  Top 10": Grey, fine SAND, trace organics, moist, modertely dense (slight TPH odor); Bottom 8": Brown-red-brown, fine SAND, trace(-) medium Sand, moist to wet, loose	
027081	83		Top 10": Grey, fine SAND, trace organics, moist, modertely dense (slight TPH odor); Bottom 8": Brown-red-brown, fine SAND, trace(-) medium Sand, moist to wet, loose	3
				L
027082	83		Top 10": As Above bottom 8" (wet); Bottom 8": Orange-brown, fine SAND, wet, loose	0
			Top 4": Iron-stained, medium to fine SAND, wet, loose; Bottom 14": Orange-brown, fine SAND, trace(+) medium Sand, wet, loose	0
027083	83		Top 10": As Above bottom 14"; Bottom 10": Grey, CLAY, trace (-) fine to very fine Sand (varved), wet, moderately dense	0
027084	83		20": As Above	0
· · · · · · · · · · · · · · · · · · ·			Bottom of Boring at 12.0'	
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GEOLOGIC BORING LOG Page 1 of 1 Project: X-410 Add. Invest. Oil RA LEA Comm No: 68V7041 **Start Date** Boring ID 03-04-97 Client: Pratt & Whitney **End Date** NK-SB-257 Location: East Hartford, CT 03-04-97 LEA DCB/JES Logged By: **Drilling Contractor:** GeoProbe Drilling Foreman: J. Sweeton Drilling Method: Sampling Method: MC Drill Rig: GeoProbe 5400 Surface Elevation: **Groundwater Observations:** Northing: At: Hours Depth: NR Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows /6 Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1027085 75 ō Top 4": Topsoil and GRAVEL; Middle 10": Grey, fine SAND, trace very fine Sand, trace organics, moist, moderately dense; Bottom 4": Dark grey, fine to very fine SAND, little Silt, trace organics, wet, dense 1027086 0 Top 8": Grey, fine SAND, trace medium Sand, moist, moderately dense; Bottom 10": Red-brown, fine SAND, trace(+) medium Sand, wet, loose 1027087 62 0 Top 8": As Above bottom 10"; Bottom 7": Orange-brown, fine SAND, wet, loose 1027088 62 Iron-stained, medium to fine SAND, wet, loose; Bottom 10": 0 Orange-brown, fine to medium SAND, wet, loose 1027089 83 0 Top 10": As Above bottom 10"; Bottom 10": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense 1027090 83 0 10": As Aove bottom 10"

Bottom of Boring 12'

Boring No: NK-SB-257

16

24

Comments:

Project: X-410 add.invest.oil ra LEA Comm No: 68V7041 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Sampling Method: **GeoProbe** MC Groundwater Observations:
Depth: NR At:
Depth: At:

**Start Date** 03-04-97 **End Date** 03-04-97

**Boring ID** NK-SB-258

Logged By: DCB/JES
Drilling Foreman: J. Swe
Drill Rig: GeoProbe 5400
Surface Elevation: J. Sweeton

Depth:		At:	Hours		
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Prim. Grain Size, Sec. Grain Sizes, Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive	PID/FID (ppm)
ļ°	1027091	75		Top 4": Topsoil; Bottom 14": Grey, fine SAND, trace very fine Sand, trace organics, moist, moderately dense	0
†	1027092	75		Top 4": Dark green, very fine SAND and SILT, trace organics, moist, moderately dense; Middle 8": Grey, fine SAND, moist, moderately dense; Bottom 6": Red-brown,	0
+4	1027093	75		fine SAND, trce(-) medium Sand, moist to wet  Top 4": As Above bottom 6"; Bottom 14": Orange-brown, fine SAND, trace(-) medium Sand, wet, loose	0
Ī	1027094	75		Top 4": Iron-stained, fine to medium SAND, wet, loose; Bottom 14": Orange-brown, fine SAND, trace(-) medium SAND, wet, loose	0
+8	1027095	83		Top 4": As Above bottom 14"; Bottom 16": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense	0
‡	1027096	83		20" As Above	0
12					
<del> </del>				·	
16					
-20					
-24					
Comments	<u> </u> 				

Project: X-410 LEA Comm No: X-410 add.invest.oil ra 68V7041 Client: Pratt & Whitney Location: East Hartford, CT LEA **Drilling Contractor:** Drilling Method: GeoPro Sampling Method: MC Groundwater Observations: GeoProbe Depth: NR At: Hours

**Start Date** 03-04-97 **End Date** 03-04-97

**Boring ID** NK-SB-259

Logged By: DCB/JES
Drilling Foreman: J. Swe
Drill Rig: GeoProbe 5400
Surface Elevation:

J. Sweeton

Northing: Easting:

Depth:		At: At:	Hours Hours	* Northing:  Easting:	
	Sam	ple Informat	ion	Sample Description	_
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Prim. Grain Size, Sec. Grain Sizes, Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive	PID/FID
0	1027097	75		Top 4": Topsoil, Middle 4": Grey, fine to very fine SAND and SILT, to organics, moist, moderately dense	0
1	1027098	75		Top 8": As Above bottom 10"; Bottom 10": Orange-red brown, fine SAND, trace medium Sand, moist, wet, loose	
+4	1027099	83		Top 10": As Above bottom 10" (wet); Bottom 10": Orange-brown, fine SAND, wet, loose	0
+	1027100	83		Top 6": Iron-stained, medium to fine SAND, wet, loose; Bottom 14": Orange-brown, fine SAND, trace (-) medium Sand, wet, loose	0
+8 + +	1027101	83		Top 8": Greenish-grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, moderately dense	
†	1027102	83		20": As Above	
112	L.,	1		Bottom of Boring 12'	ļ
16					
20					
24					

Printed On: 8/19/1997

				1 age 1 01 1
Project: X-194 F LEA Comm No:			Start Date 03/06/97	Boring ID
Client: Pratt & W Location: East He	'hitney		End Date 03/06/97	NK-SB-260
Drilling Contractor Drilling Method: Sampling Method: Groundwater Obser	GeoProbe MC	Oh,	Drilling For	GeoProbe 5400

Nameh   Samole   Recovery   Blows   National Continue Cultural Avantaina	Depth: Depth:	NR	At:	Hours Hours	Northing: Easting:	
Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cobesiveness   O		Sa	mple Informs	ition	Sample Description	
moist, loose; Middle 6": Brown, fine SAND, trace organics, moist, moderately dense; Bottom 2": Brown, fine SAND, trace-organics, moist, moderately dense; Bottom 2": Brown, fine SAND, trace-organics, moist, moderately dense; Bottom 2": Brown, fine SAND, trace medium Sand, moist to wet (bottom 3"), loose  1027036 62 1027037 62 17op 6": As Above (wet); Bottom 5": Grey-brown, fine to medium SAND, wet, loose; Middle 11": Grey, fine to medium SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose Bottom 2": Grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense  1027038 83 17op 8": Grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense  12 Bottom of Boring 12.2"	Elevation/ Depth		Recovery		Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity,	(ppm)
1027034 76 18": Grey-brown, fine SAND, trace medium Sand, moist to wet (bottom 3"), loose  1027036 62 Top 10": As Above (wet); Bottom 5": Grey-brown, fine to medium SAND, wet, loose; Middle 11": Grey, fine to medium SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose  1027037 62 Top 6": Grey, fine SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose  1027038 83 Top 6": As Above Bottom 2"  1027039 83 Top 8": Grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense  12 Bottom of Boring 12.2"	10	1027033	76		moist, loose; Middle 6": Brown, fine SAND, trace organics, moist, moderately dense; Bottom 2": Brown, fine SAND,	0
medium SAND, wet, loose    1027037   62   Top 6": Grey, fine SAND, wet, loose; Middle 11": Grey, fine to medium SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose   1027038   83   Top 6": As Above Bottom 2"   2	Ī	1027035 1027034	75 76		18": Grey-brown, fine SAND, trace medium Sand, moist to	0
to medium SAND, wet, loose; Bottom 2": Grey, fine SAND, wet, loose  Top 6": As Above Bottom 2"  1027039 83 Top 8": Grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense  Bottom of Boring 12.2"  Bottom of Boring 12.2"	+4	1027036	62			0
1027039 83 Top 8": Grey, fine SAND, wet, loose; Bottom 12": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense  Bottom of Boring 12.2"	Į Į	1027037	62		to medium SAND, wet, loose; Bottom 2": Grey, fine SAND,	0
CLAY, trace fine to very fine Sand (varved), wet, dense  Bottom of Boring 12.2"	+8	1027038	83		Top 6": As Above Bottom 2"	2
Bottom of Boring 12.2*	† †	1027039	83			3
20	+12	2			Bottom of Boring 12.2"	
-24	10	5				
		0				
Comments:	+ + - 24	4				
	Comme	nts:	II			<del> </del>

Project: X-194 Former AST Start Date **Boring ID** LEA Comm No: 68V7042 03/06/97 Client: Pratt & Whitney **End Date** NK-SB-261 Location: East Hartford, CT 03/06/97 Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: GeoProbe 5400 LEA **Drilling Contractor:** Drilling Method: Sampling Method: J. Sweeton **GeoProbe** 

Sampling Method: MC
Groundwater Observations:
Depth: NR At:
Hours

Drill Rig: GeoPr
Surface Elevation:
Northing:

Depth:	NH		kt: kt:	Hours	Forting:	
		Sam	ple Informa	tion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn
ļ		1027040	83		Top 4": Topsoil and root material; Bottom 16": Orange- brown, fine SAND, trace very fine Sand, trace medium Sand, trace organics, moist, moderately dense	
† + +		1027041	83		20": Grey to greenish grey, fine SAND, trace very fine Sand, moist to wet (bottom 8")	
4		1027042	83		Top 10": As Above (wet); Bottom 10": Grey-brown, fine to medium SAND, wet, loose	<u>-</u>
†		1027043	83		Top 8": Grey-fine SAND, wet, loose; Middle 6": grey, fine to medium SAND, wet, loose; Bottom 6": Grey-brown, medium to fine SAND, trace(+) coarse Sand, wet, loose	
+8		1027044	83		Top 10": Grey, fine SAND, trace(-) medium Sand, wet, loose; Bottom 10": Brown, medium to fine SAND, little coarse Sand, wet, loose	
Ī		1027045	83		Top 12": As Above bottom 10"; Middle 4": Greenish-grey, fine SAND, wet, loose; Bottom 4": Grey, CLAY, trace fine Sand, wet, loose	
+12					Bottom of Boring 12.2'	
+						ĺ
†			1 1			ļ
I			j			1
+	1					
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十16	'					]
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+						
t	1					
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+20	)					
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7						Ь
Comme	uls:					

GEOLOGIC BORING LOG Page 1 of 1 Project: X-194 Former AST Start Date Boring ID 03/06/97 LEA Comm No: 68V7042 Client: Pratt & Whitney **End Date** NK-SB-262 03/06/97 Location: East Hartford, CT **Drilling Contractor:** Logged By: D. Brisson LEA Drilling Foreman: J. Sweeton **GeoProbe** Drilling Method: Sampling Method: MC Drill Rig: GeoProbe 5400 Surface Elevation: Groundwater Observations: Hours Northing: Depth: NR At: Hours Easting: At: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1027046 96 Top 6": Red-brown, fine to very fine SAND, trace organics, moist, loose; Middle 6": Brown, fine SAND, some organics, roots, moist, loose; Bottom 10": Brown, fine SAND, some medium Sand, moist, loose 1027047 96 Brown, medium SAND, some fine Sand, wet, loose

1027048 96 Top 8": Brown, medium SAND, some fine Sand, trace Silt, wet, loose; Bottom 12": Brown, fine to medium SAND, trace coarse Sand, wet, loose 1027049 96 Top 10": As Above; Bottom 10": Brown, fine SAND, trace medium Sand, wet, loose 1027050 96 Top 6": As Above; Bottom 17": Brown, fine to medium SAND, trace coarse Sand, wet, loose 96 1027051 Top 12": Red-brown, fine to medium SAND, some coarse Sand, wet, loose, Bottom 11": Grey, CLAY, trace fine to very fine Sand (varved), wet, dense 12 Bottom of Boring 12' 16 20 24 Comments:



Project: X-194 Former AST **LEA Comm No:** 68V7042 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: LEA GeoProbe MC **Groundwater Observations:** Depth: NR At: Hours

**Start Date** 03/06/97 End Date 03/06/97

Boring ID

NK-SB-263

Logged By: D. Brilling Foreman: D. Brisson

J. Sweeton Drill Rig: GeoProbe 5400 Surface Elevation:

Sevation/ Depth	Sample No. 1027052 1027053	Recovery (X) 75 75	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 4": Topsoil and root material; Bottom 14": Orange- brown, fine SAND, trace very fine Sand, trace organics, moist, moderately dense  18": Grey, fine SAND, trace very fine Sand, moist (wet bottom 10")	(ppm)
Depth	1027052	75	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 4": Topsoil and root material; Bottom 14": Orange- brown, fine SAND, trace very fine Sand, trace organics, moist, moderately dense  18": Grey, fine SAND, trace very fine Sand, moist (wet	(ppm
4	1027053	75		brown, fine SAND, trace very fine Sand, trace organics, moist, moderately dense  18": Grey, fine SAND, trace very fine Sand, moist (wet	
+4					
+4	1027054	83			
				Top 15": As Above (wet); Bottom 5": Brown, fine SAND, trace(+) medium Sand, wet, loose	
	1027055	83		Top 7": As Above Bottom 5"; Middle 7": Grey, fine SAND, wet, loose; Middle 7": Grey, fine SAND, wet, loose; Bottom 6": Grey, fine to medium SAND, wet, loose	
T8	1027056	83		Top 4": Grey, fine SAND, wet, loose; Middle 4": Greybrown, fine to medium SAND, wet, loose; Bottom 12": Brown, medium to fine SAND, trace(-) coarse Sand, wet,	
-12	1027067	83		Top 10": As Above Bottom 12"; Middle 4": Brown, fine SAND, wet, loose; Bottom 6": Grey, CLAY, trace fine to very fine Sand (varved), wet, moderately dense	
†				Bottom of Boring 12'	:
+					
+16					
20					
†					
24					
<u> </u>					
Comments:	<u>-</u> -				

Project: X-430 Add. Inv. Former AST LEA Comm No: 68V7043

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** 

Depth: Depth:

At:

Hours

Start Date 03/10/97 **End Date** 03/10/97

**Boring ID** NK-SB-264

Logged By: J. Trzaski

Drilling Foreman: D. Brisson

Drill Rig: Geoprobe Surface Elevation:

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ް	1026986	100		Top 1.5': Strong brown, fine SAND, trace medium Sand, trace organic matter, moist, loose; Bottom 0.5': Light olive-brown, fine SAND, trace medium Sand, moist, loose	0
Ī	1026987	100		Light brown, fine to medium SAND, moist, loose, micaceous	0
4	1026988	100		Brownish-yellow, medium SAND, trace fine Sand, wet, loose	0
ł	1026989	100		Yellowish-brown, medium SAND, trace fine Sand, wet, loose	0
<b>+</b> 8	1026990	75		Light brown, fine to medium SAND, wet, loose	0
Ī	1026991	75		Light olive-brown, fine to medium SAND, trace coarse Sand, wet, loose	0
12	1026992	75	·	Top 6": As Above; Bottom 1': Grey Clay, wet, loose	0
‡	1026993	75		Grey Clay, wet, loose, silt lense @ 15'	0
16				Bottom of Boring at 16.0'	
-20					
1					
+24					

				▼	
	X-430 Add. Inv. Forme n No: 68V7043	r AST		Start Date 03/10/97	Boring ID
	ratt & Whitney East Hartford, CT			End Date 03/10/97	NK-SB-265
Drilling Co Drilling Mo Sampling I Groundwar Depth: Depth:	ethod: Geoprobe Method: Macro Core ter Observations: At: At:	Hours Hours	<del>□</del> <del>*</del>	Logged By: Drilling Fore Drill Rig: Surface Eleve Northing: Easting:	man: D. Brisson Geoprobe
	Sample Information			 Sample Description	

Sample No. 1026994 1026995 1026996 1026997 1026998	100 100 100 100 100 100 100 100 100 100	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 8": Dark brown, fine to very fine SAND, little organic matter, moist, loose; Middle 6": Yellowish-brown, fine SAND; Bottom 10": Pale brown, fine to medium SAND  Pale brown, fine to medium SAND, moist, loose  As Above, wet  Yellowish-brown, medium SAND, trace fine Sand, trace coarse Sand, wet, loose	(ppm) 0 0
1026994 1026995 1026996 1026997	100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 8": Dark brown, fine to very fine SAND, little organic matter, moist, loose; Middle 6": Yellowish-brown, fine SAND; Bottom 10": Pale brown, fine to medium SAND  Pale brown, fine to medium SAND, moist, loose  As Above, wet  Yellowish-brown, medium SAND, trace fine Sand, trace	0
1026995 1026996 1026997 1026998	100		matter, moist, loose; Middle 6": Yellowish-brown, fine SAND; Bottom 10": Pale brown, fine to medium SAND  Pale brown, fine to medium SAND, moist, loose  As Above, wet  Yellowish-brown, medium SAND, trace fine Sand, trace	0
1026996 1026997 1026998	100		As Above, wet  Yellowish-brown, medium SAND, trace fine Sand, trace	0
1026997	100		Yellowish-brown, medium SAND, trace fine Sand, trace	
1026998				0
	60		Coarse Sand, Wet, 1005e	
1026999	1 1		Yellowish-brown, fine to medium SAND, wet, loose	0
1020333	60		Yellowish brown, fine to medium SAND, trace(+) coarse Sand, wet, loose, dark brown staining at 11', Clay at 12.2'	0.3
			Bottom of Boring 12.0'	
	Yolo h	Hole hackfilled	Hole backfilled with bento	Hole backfilled with bentonite chips after GW sampling



GEOLO	JIC DON	шио в			1	——————————————————————————————————————	Page 1 of 1	
	X-430 Add m No: 68		rmer AST		Y	Start Date 03/11/97	Boring II	)
	ratt & Whit East Hart			A	1	End Date 03/11/97	NK-SB-26	66
Drilling Control of the Drilling Manual of the Depth: Depth:	lethod: G Method: iter Observa	LEA leoprobe Macro ( tions: At: At:				Logged By: J. Drilling Foreman Drill Rig: Geop Surface Elevation Northing: Easting:	: D. Brisson Probe	
	San	ple Informa	tion			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"		Moistur	ary Grain Size, Secondary G e, Sorting, Sphericity, Angul ary Structures, Density, Cohe	arit <del>y</del> ,	(ppm)

Deptn:		λι:	Hours	₹ Lasung:	
	San	pie Informati	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1027001	80		Top 4": Organic debris; Bottom 1.2'; Dark yellowish-brown, fine SAND, little organic matter, moist, loose	
†	1027002	80		Top 6": Light yellowish-brown, fine SAND, trace organic matter, moist, loose, trace organic matter; Bottom 1': Yellowish-brown, fine to medium SAND, moist,	
<b>T</b> *	1027003	100	•	Top 6": Light yellowish-brown, medium to fine SAND; Bottom 1.5': Light yellowish-brown, fine to medium SAND, trace(-) coarse Sand, wet, loose, micaceous	
	1027004	100		Top 6": Light yellowish-brown, fine to medium SAND, trace(-) coarse Sand, micaceous, wet, loose; Bottom 1.5': Dark yellowish-brown, fine to medium SAND, dark brown	
†	1027005	60		Staining at 7.5', orange-red staining at 7.0', wet, loose Yellowish-brown, fine to medium SAND, wet, loose	
† †	1027006	60	`	As Above; Dark brown staining at 8', CLAY encountered at 12. 5'	
-12 -				Bottom of Boring 12'	
† 					
20					
24				•	
T					



Project: X-430 Add. Inv. Former AST LEA Comm No: 68V7043 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** 

Drilling Method: Geopro Sampling Method: Maci Groundwater Observations: Geoprobe Macro Core

Depth:

At:

Hours

Start Date 03/11/97 End Date 03/11/97

**Boring ID** 

NK-SB-267

Logged By: J. Trzas Drilling Foreman: Drill Rig: Geoprobe Surface Elevation: J. Trzaski D. Brisson

Depth:	· · · · · · · · · · · · · · · · · · ·	At:	Hours	<b>∓</b> Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1027007	100		Top 2": Organic debris; ;Middle 1.2': Dark brown, fine SAND, little organic matter, moist, loose; Bottom 8": Light yellowish-brown, fine SAND, trace Silt	
‡	1027008	100		Top 6": Light yellowish-brown, fine SAND, moist, loose; Bottom 1.5": Light yellowish-brown, fine to medium SAND, moist, loose	
+4	1027009	90		Yellowish-brown, fine to medium SAND, wet, loose, orange-red modeling at 5-6'	
‡	1027010	90	ļ	Yellowish-brown, fine to medium SAND, wet, loose	
+8				No Recovery	
+				No Recovery	
12			<u>.</u>	Bottom of Boring 12'	
16					
+ + 20					
24					
Comments	: Hole b	ackfilled	with bento	nite chips after GW sampling	

Project: MERL Area Add. Invest. 68V7048 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor: LEA Drilling Method:** Geoprobe Macro Core Sampling Method:

Groundwater Observations:

Depth: NR Denth:

Hours At: Hours Start Date 03/05/97 **End Date** 03/05/97

Boring ID

NK-SB-268

D. Brisson

Logged By: D. B Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Depth:	F	At:	Hours	Easting:	
	San	aple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1027238	75		Top 6": Topsoil and root mat; Bottom 12": Orange brown, fine SAND, trace(+) medium Sand, trace organics, moist, loose	0
‡	1027239			Top 1": Dark brown, fine to very fine SAND, trace organics, moist, dense; Bottom 17": Grey brown, fine SAND, moist, loose	0
+4	1627240	62		Top 10": As Above Bottom 17"; Bottom 5": Brown, fine to medium SAND, iron staining present, wet, loose	0
†	1027241			Top 5": Brown, fine SAND, trace(-) medium Sand, wet, loose; Bottom 10": Brown, fine SAND, trace(+) medium Sand, wet, loose	0
+8	1027242	75		Top 8": Grey, fine to medium SAND, wet, loose; Middle 5": Orange brown, fine to medium SAND, wet, loose; Bottom 5": Orange brown, fine SAND, wet, loose	0
<u> </u>	1027243			Top 2": Brown, coarse to fine SAND, wet, loose; Bottom 16": Grey, CLAY, trace fine to very fine Sand, varved, wet, dense	0
+12				Bottom of Boring at 12'	
+ + 16					
Ī	-				
-20					
†					
24					
- 1	1				l

MERL Area Add. Invest. Project: **LEA Comm No:** 68V7048 Client: Pratt & Whitney Location: East Hartford, CT LEA

Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Macro
Groundwater Observations: Geoprobe **Macro Core** 

Depth: NR

At:

Start Date **0**3/05/97 **End Date** 03/05/97

Boring ID

NK-SB-269

D. Brisson Logged By:

J. Sweeton Drilling Foreman: Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:	1	At:	Hours	Easting:		
<del></del>	San	nple Informat	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1027244	62		15": Brown, fine to very fine SAND, trace organics, moist, moderately dense		
‡	1027245			15": Orange brown, fine SAND, trace organics, moist, loose		
<b>+4</b>	1027246	62		Top 10": Brown, fine SAND, trace(+) medium Sand, wet, loose; Bottom 5": Brown, fine to medium SAND, wet, loose		
† †	1027247			Top 13": Greenish grey, fine SAND, trace(-) medium Sand, wet, loose; Bottom 2": Grey, fine to medium SAND, trace(-) coarse Sand, wet, loose		
+8	1027248	83		Top 15": As Above bottom 2"; Bottom 5": Orange brown, medium to fine SAND, trace(-) coarse Sand, wet, loose		
† †	1027249			20": Grey, CLAY, trace fine to very fine Sand, varved, wet, dense		
+12 +				Bottom of Boring at 12'		
†						
<del>+</del> 16						
† + +	_					
20					ļ	
+						
+ 24 						
Comments	]					

MERL Area Add. Invest. Project: 68V7048 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NR

Hours

Start Date 03/05/97 **End Date** 03/05/97

**Boring ID** 

NK-SB-270

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:	A	At: Hours		₹ Easting:		
	San	spie Informat	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	81aws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1027250	62		Top 4": Concrete and rock fragments in topsoil; Bottom 11": Orange brown, fine SAND, trace very fine Sand, trace organics, moist, loose	0	
Ī	1027251 1027252			15": As Above	0	
+4	1027253	62		15": Brown, fine SAND, trace(+) medium Sand, wet, loose	0	
	1027754			Top 5": Orange brown, medium to fine SAND, heavily iron stained, wet, loose; Bottom 10": Orange brown, medium to fine SAND, trace coarse Sand, wet, loose	0	
+8	1027255	62		15": Grey, medium to fine SAND, trace(-) coarse Sand, wet, loose	0	
‡	1027258			Top 11": As Above; Bottom 4": Grey, CLAY, trace fine to very fine Sand, varved, wet, dense	0	
<del>+</del> 12				Bottom of Boring at 12'		
16						
<u> </u>	-					
20						
-24						
Comments	:	11				

Boring :

Printed On: 1/23/1998

LEA Comi Client: P	ratt & Whit	V7048 tney	est.	Start Date 03/05/97 End Date 03/05/97 NK-SB-27	- 1
Location: Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ontractor: ethod: G Method: ter Observa R	LEA Seoprobe Macro C	Core Hour Hours	Logged By: D. Brisson Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1027257	83		Top 6": Topsoil and root mat; Bottom 14": Grey, fine SAND, trace organics, moist, moderately dense	0
<u> </u>	1027258			20": As Above Bottom 14"	0
+4	1027259	75		Orange brown, fine SAND, trace(-) medium Sand, wet, loose; Bottom 10": Orange grey brown, medium to fine SAND, trace(+) coarse Sand, wet, loose	0
‡	1027260			Top 8": Orange brown, fine SAND, trace(-) medium Sand, wet, loose; Bottom 10": Orange grey brown, medium to fine SAND, trace(+) coarse Sand, wet, loose	0
8	1027261	62		Top 15": Greenish grey to orange brown, fine SAND, trace(-) medium Sand, wet, loose	0
<u> </u>	1027262			15": Grey, CLAY, coarse to fine to very fine Sand, varved, wet, dense	0
+12				Bottom of Boring at 12'	
16					
‡ ‡	-				
20					
24					
Comments					

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051 **Start Date Boring ID** 03/12/97 Client: Pratt & Whitney **End Date** NK-SB-272 Location: East Hartford, CT 03/12/97 Logged By: J. Trzaski **Drilling Contractor:** LEA Drilling Foreman: Drilling Method: Geoprobe D. Brisson Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: Groundwater Observations: Northing: Depth: Easting: Depth: Hours

Depth:		<b>At:</b>	Hours	₹ £asung:	
	San	aple Informat	ion	Sample Description	
devation/ Depth	Sample No.	Recovery (%)	Blaws /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1028166	100		Top 2": Organic debris; Middle 8": Dark brown, fine SAND, trace Silt, little organic matter; Bottom 1': Brownish yellow, fine SAND, trace Silt, trace organic matter, moist, loose	0
<b>+</b>	1028167	100		Top 6": Yellowish brown, fine SAND, trace organic matter, moist, loose; Bottom 1.5': Dark brown, fine SAND, trace Silt, trace organic matter, moist, loose	0
<b>*</b>	1028168 1028170	75		Top 8": Dark brown, fine to medium SAND, wet, loose, orange mottling 5-6'; Bottom 1': Brown, fine to medium SAND	0.2
‡	1028169	75		Top 6": Brown, fine to medium SAND, with dark brown mottling, wet, loose; Bottom 1': Yellowish brown, medium SAND, wet, loose	80.0
+8	1028171	60		Top 8": Greyish brown, fine to medium SAND, trace coarse Sand, wet, loose; Bottom 6": Yellowish brown, fine to medium SAND, trace coarse Sand, wet, loose	0.4
‡	1028172	60		Top 8": Yellowish brown, medium SAND, dark brown staining at sand-clay interface; Bottom 6": Grey, CLAY, wet, loose	0.2
+12   				Bottom of Boring at 12'	
Ī					
16					
20					
†					
+					



Project: Add. Investigation NK Soil Piles **LEA Comm No:** 68V7051 Client: Pratt & Whitney Location: East Hartford, CT

LEA **Drilling Contractor:** Drilling Method: Geoprobe Sampling Method: Macro Core **Groundwater Observations:** Depth: Hours

tar Date 03/12/97 **End Date** 03/12/97

Boring ID NK-SB-273

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Depth:	1	At:	Hours	Easting:	
<u>.</u>	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1028173	100		Top 6": Drk brown, fine SAND, trace Silt, trace organic matter, dry, loose; Bottom 1.5': Brown to orange-brown, fine SAND, trace organic matter, dry, loose	0
‡	1028174	100		Yellowish brown, fine SAND, trace(-) fine Gravel, moist, loose	0.2
<b>†</b> 4	1028175	50		Yellowish brown, fine SAND, trace(-) medium Sand, trace(-) fine Gravel, moist, loose	4.8
‡	1028176	50		As Above	0.4
+8	1028177	80		Top 1': Dark brown to brown, fine SAND, trace organic matter, wet, loose; Bottom 0.5': Greyish brown, fine to medium SAND, wet, loose	6.0
‡	1028178	80		Greyish brown, fine to medium SAND, mottling (dark brown) at 11-12', wet, loose	4.0
+12	1028180	80		Top 1.5': Yellowish brown, fine to medium SAND, wet, loose; Bottom 4": Grey, varved CLAY, wet, loose; Dark brown staining at clay/sand interface	0.6
‡	1028181	80		Grey, varved CLAY, wet, loose	0.3
+16 + + + + + +	·			Bottom of Boring at 16'	
20					
24					
‡					
Comments	1	1-6:111	with bentor	L	L .—

Project: Add. Investigation NK Soil Piles **LEA Comm No:** 68V7051

Hours

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations:

Depth: At: Depth: At:

Start Date 03/12/97 **End Date** 03/12/97

**Boring ID** 

NK-SB-274

J. Trzaski

Logged By: J. T. Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400

Surface Elevation:

Deptn:		At:	nours	₹ Lasting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
T°	1028182	100		Top 4": Organic debris; Middle 6": Dark brown, fine SAND, little organic matter, dry, loose; Botom 1': Brown to orange brown, fine SAND, dry loose	0
Ī	1028183	100		Brown to orange brown, fine SAND, dry, loose, Cobble at 2'	0
+4	1028184	50		Brown to orange brown, fine SAND, Cobbles at 5', moist, loose	0.4
‡	1028185	50		Dark yellowish brown, fine SAND, moist, loose, wet at 8'	0.4
8	1028186	75		Dark brown, fine SAND, trace Silt, trace organic matter, wet, loose	2.5
‡	1028187	75	-	Greyish brown, fine to medium SAND, wet, loose	60
12	1028188	80	-	Top 8": Yellowish brown, fine to medium SAND, wet, loose; Bottom 1': Grey, CLAY, wet, loose, dark brown staining at sand/clay interface	0.4
‡	1028189	80		Grey, CLAY, wet, loose	0
16				Bottom of Boring at 16'	
-20					
-24					
Comments	: Hole b	ackfilled v	with bentor	nite chips	<u> </u>

Add. Investigation NK Soil Piles Project: LEA Comm No: 68V7051

Client: Pratt & Whitney **Location:** East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** 

Depth:

At: Hours Start Date 03/13/97 **End Date** 03/13/97

Boring ID

NK-SB-275

Logged By: J. Trzaski

Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Surface Elevation: D. Brisson

Depth:	1	At:	Hours	Easting:	
	San	nple Informa	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1028193	75		Top 2": Organic debris; Middle 6": Light brown, fine SAND, little Silt, dry, loose; Bottom 10": Dark yellowish brown, fine SAND, trace fine and coarse process stone Gravel, dry,	0
Į Į	1028194	75		Same as last 10": moist 3-4'	0.3
+4	1028195 1028197	75		Dark yellowish brown, fine SAND, trace(-) organic matter, moist, loose	0
‡	1028196	75		Dark brown, fine SAND, trace Silt, trace medium Sand, wet, loose	0.2
+8	1028198	80		As Above, trace organic matter, Cobble at 9'	0
† †	1028199	80		Greyish brown, fine to medium SAND, wet, loose, grading into yellowish brown, fine SAND	0.6
+12	1028200	100		Top 8": Yellowish brown, fine SAND, wet, loose; Bottom 14": Yellowish brown, medium to fine SAND, wet, loose	10
‡ ‡	1028201	100		Grey, varved CLAY, wet, loose, reddish brown staining at Sand/Clay interface	0.2
+16 - - - - -	-			Bottom of Boring at 16'	
20					
				•	
+24					
Comments	s: Hole b	ackfilled	with bento	nite chips	J

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051 Start Date 03/13/97 **Boring ID** Client: Pratt & Whitney **End Date** NK-SB-276 Location: East Hartford, CT 03/13/97 Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400 **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe D. Brisson Macro Core **Groundwater Observations:** Surface Elevation:

Elevation/ Depth	Sample No. 1028202 1028203 1028204 1028205 1028206	Recovery (x) 100 100 50	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 6": Organic debris; Middle 10": Light brown, fine SAND, trace(-) medium Sand, dry, loose; Bottom 8": Yellowish brown, fine SAND, trace coal and cinders, dry, loose  Yellowish brown, fine SAND, trace coal and cinders, moist, loose  Dark brown, fine SAND, trace coal and cinders, Cobbles at 5-6', moist, loose, wet at 5'	(ppm) 0
	1028202 1028203 1028204 1028205	100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Top 6": Organic debris; Middle 10": Light brown, fine SAND, trace(-) medium Sand, dry, loose; Bottom 8": Yellowish brown, fine SAND, trace coal and cinders, dry, loose  Yellowish brown, fine SAND, trace coal and cinders, moist, loose  Dark brown, fine SAND, trace coal and cinders, Cobbles at	0
	1028203 1028204 1028205	100		SAND, trace(-) medium Sand, dry, loose; Bottom 8": Yellowish brown, fine SAND, trace coal and cinders, dry, loose Yellowish brown, fine SAND, trace coal and cinders, moist, loose  Dark brown, fine SAND, trace coal and cinders, Cobbles at	0
	1028204	50		Yellowish brown, fine SAND, trace coal and cinders, moist, loose  Dark brown, fine SAND, trace coal and cinders, Cobbles at	
-8	1028205			Dark brown, fine SAND, trace coal and cinders, Cobbles at 5-6', moist, loose, wet at 5'	0.4
-8		50			
***	1028206	1 1		Top 6": Dark brown, fine SAND, trace medium Sand, wet, loose, coal and cinders; Bottom 6": Greyish brown, fine to medium SAND, wet, loose	0
		40		Greyish brown, medium to fine SAND, wet, loose	0
†	1028207	40		As Above, CLAY in tip	0
十12  -					
† †				Bottom of Boring at 12'	
16					
				•	,
20					
‡					
24					
Comments:	Hole ba	ackfilled v	vith bentor	nite chips	L

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core

Depth:

At:

Hours 💆

Start Date 03/13/97 End Date 03/13/97

**Boring ID** 

NK-SB-277

Logged By: J. To Drilling Foreman: J. Trzaski

D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1028208	90		Top 3": Organic debris; Bottom 18": Yellowish brown to dark yellowish brown, fine SAND, trace fine and coarse Gravel (process stone), dry, loose; 2" layer of light brown, fine to medium SAND at 1.2'	0
‡	1028209	90		Dark yellowish brown, fine SAND, trace fine and coarse Gravel (process stone), moist, loose, petroleum odor	1.0
<b>†4</b>	1028210	25		Dark yellowish brown, fine SAND, moist, loose, petroleum odor	1.0
†	1028211	25		Dark brown, fine SAND, trace(-) fine Gravel, wet, loose; strong petroleum odor	210
+8 +	1028212	75	·	Top 6": Dark brown, fine SAND, trace(+) Silt, wet, loose; Bottom 1': Greyish brown, fine to medium SAND, wet, loose	200
12	1028213	75		Top 1.2': Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose	7.0
+ -				Bottom of Boring at 12'	
16					
+					
-20					
†					
+					
- 24					

Comments:

Hole backfilled with bentonite chips



Printed On: 2/6/1998

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** 

Depth:

Hours

**Start Date** 03/13/97 **End Date** 03/13/97

Boring ID

NK-SB-278

Logged By: J. Trzaski Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Depth:		At:	Hours	Easting:	
	San	nple Informs	ation	Sample Description	
Slevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
°	1028214	90		Top 8": Dark brown, fine SAND, some Silt, trace organic matter, dry, loose; Bottom 1.2': Light brown, fine SAND, dry, loose	0
	1028215	90		Dark yellowish brown, fine SAND, trace(-) fine Gravel, moist, loose	0.2
+4	1028216	60		Dark yellowish brown, fine SAND, moist, loose	0
‡	1028217	60		Dark yellowish brown, fine SAND, little medium Sand, wet, loose	60
+8	1028218	90		Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor	300
+12	1025219	90 ·		Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose	35
‡				Bottom of Boring at 12.5'	
16					
20					
‡					



Add. Investigation NK Soil Piles Project: LEA Comm No: 68V7051 Client: Pratt & Whitney East Hartford, CT Location:

Start Date **03/13/97 End Date** 03/13/97

Boring ID

NK-SB-279

Drilling Contractor: Drilling Method: Logged By: J. Trzaski Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Geoprobe

Sampling Method: Macro Core

**Groundwater Observations:** 

Depth:

Northing:

Depth:		lt:	Hours	Easting:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1028220	100		Top 8": Light brown, fine SAND, trace organic matter, dry, loose; Bottom 1.2': Yellowish brown, fine SAND, dry, loose	0
‡	1028221	100		Yellowish brown, fine SAND, moist, loose	0
+4	1028222	75	-	As Above	0
	1028223	75		Top 6": As Above; Bottom 1': Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor	275
8	1028224	60		As above last 1'; Bottom 2": Black, sapric organic matter	> 100
+	1028225	60		Greyish brown, fine to medium SAND, trace coarse Sand, wet, loose	> 100
+12 +	1028226	75		Top 8": Yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 10": Grey, varved CLAY, wet, loose	0
†	1028227	75		Same as last 10" above	0
16				Bottom of Boring at 16'	
† † †	.a				
20					
+ + + + + + + + + + + + + + + + + + + +					
-24					

Comments:

Hole backfilled with bentonite chips

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro Core

**Groundwater Observations:** 

Depth: Depth: At: Hours Hours **Start Date** 03/14/97 **End Date** 03/14/97

Boring ID

NK-SB-280

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Sample   Sample   No.		Easting:	
Depth Sample No. 1028230 1028231 4 1028232 1028233 1028235 1028236 1028237	ample Information	Sample Description	
1028231 1028232 1028233 8 1028234 1028235 1028236	Recovery Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1028232 1028233 8 1028234 1028235 1028236 1028237	100	Top 8": Light yellowish brown, fine SAND, trace organic matter, micaceous, dry, loose; Bottom 40": Light brown, fine SAND, micaceous, moist, loose	0.8
1028233 8 1028234 1028235 12 1028236 1028237	100	Top 5": Same as last 40", petroleum odor; Middle 4": Dark brown, fine SAND, trace Silt, wet, loose, strong petroleum odor; Bottom 39": Dark yellowish brown, fine SAND, moist,	68
1028234 1028235 1028236 1028237	75	Dark yellowish brown, fine SAND, Cobble at 5', moist, loose, petroleum odor	10
1028234	75	Dark brown, fine SAND, moist, loose, strong petroleum odor	8.0
1028236	88	Dark brown, fine SAND, trace Silt, wet, loose, wet at 8', slight petroleum odor; Bottom 6": Dark brown, fine SAND and black sapric organic matter, wet, loose	> 1000
1028236	88	Greyish brown, fine to medium SAND, wet, trace(-) coarse Sand, loose	100
16	83	Top 1': Greyish brown, medium SAND, trace(+) coarse Sand, wet, loose; Bottom 8": Grey, varved CLAY, wet, loose	0.4
	83	Grey, varved CLAY, wet, loose	1.6
20		Bottom of Boring at 16'	
+ 1			
24			
Comments: Hole b	backfilled with bente		<u> </u>



Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor: LEA** Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** Depth: 5.6'

At:

Hours

Start Date 03/14/97 **End Date** 03/14/97

**Boring ID** 

NK-SB-281

Logged By: J. Trzaski

Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Depth:	A	At:	Hours	₩ Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1028238	62		Light brown, fine SAND, some fine and coarse Gravel (process stone), dry, loose, Black bituminous asphalt last 3"	1.4
† - - +	1028239	62		Yellowish brown, fine SAND, trace(-) coarse Gravel (process stone) moist, loose, Black bituminous asphalt first 2"	NR
+4	1028240 1028242	83 83		Dark yellowish brown, fine SAND, little organic matter, trace medium Sand, wet at 10"	4.6
+ 8	1028241			Top 6": As Above; Middle 3": Light yellowish brown, fine to medium SAND, trace organic matter, wet, loose; Bottom 11": Greyish brown, fine to medium SAND, grading to medium fine Sand, wet, loose	1.2
+	1028243	58		Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, wet, loose	2.7
† + +	1028244	58		Top 4": Yellowish brown, medium to fine SAND, trace(+) coarse Sand, wet, loose; Bottom 10": Grey, varved CLAY, wet, loose	1.4
+12 + + + +				Bottom of Boring at 12'	
+16 +1					
+	<b>-</b>				
+ 20 - - - - -					
-24					
Comments	: Hole b	ackfilled	with bento	nite chips	

Add. Investigation NK Soil Piles Project: LEA Comm No: 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Geoprobe Drilling Method: Sampling Method: Macro Core

**Groundwater Observations:** 

Depth:

Hours

Start Date 03/14/97 **End Date** 03/14/97

Boring ID

NK-SB-282

Logged By: J. Trzaski Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Surface Elevation: D. Brisson

Depth:	1	At:	Hours	Easting:	
	San	ple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1028245	100		Top 2": Organic debris; Middle 8": Dark brown, fine SAND, trace(+) Silt, dry, loose, trace organic matter; Bottom 14": Yellowish brown, fine SAND, moist, loose	0.8
‡	1028246	100		Same as last 14"	0.9
<b>+4</b> +	1028247	79	-	Top 8": As Above, trace organic matter; Bottom 11": Dark brown, fine SAND, trace(+) Silt, rotting tree from 8-12", wet at 10"	70
‡	1028248	79		Top 8": As above bottom 11"; Bottom 11": Greyish brown, fine to medium SAND, wet, loose	40
<del></del> 8	1028249	67		Greyish brown, fine to medium SAND, trace(-) coarse Sand, wet, loose; stained reddish brown at 11-16*et, loose	2.8
‡	1028250	67		Top 8": Greyish brown, fine to medium SAND, trace(-) coarse Sand, wet, loose; Bottom 8": Grey, varved CLAY, wet, loose	2.8
+12	·			Bottom of Boring at 12'	
-16					
20					
-24					
Comments	: Hole b	ackfilled	with bento	nite chips	J

Project: Add. Investigation NK Soil Piles **LEA Comm No:** 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

LEA **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** 

Depth:

At:

Hours

Start Date 03/17/97 **End Date** 03/17/97

**Boring ID** 

NK-SB-283

Logged By: J. T. Drilling Foreman: J. Trzaski

D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	•	At:	Hours	Easting:	
	Saı	mple Informa	ntion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1028253	77		Dark yellowish brown, fine SAND, trace organic matter, trace(-) fine Gravel (process stone), dry, loose	0
† + +	1028254	77		Dark yellowish brown, fine SAND, trace(-) organic matter, trace(-) fine and coarse Gravel (process stone), dry, loose	O
14	1028256	77		Dark yellowish brown, fine SAND, trace(-) organic matter, moist, loose, wet at 17"	0
† †	1028255 1028257	77		Top 11": As Above; Bottom 7": Dark brown, fine SAND, little Silt, trace organic matter, wet, loose	280
+8	1028258	83		Greyish brown, fine to medium SAND, wet, loose	2.2
ļ 	1028259	83		Top 12": Greyish brown, fine to medium SAND, trace coarse Sand in last 5", wet, loose; Bottom 8": Grey, varved CLAY, wet, loose	6.4
+12				Bottom of Boring at 12'	
16			i		
† †					
20					
‡					
24					
‡					
Comments	: Hole b	ackfilled	with bentor	nite chips	

Project: Add. II LEA Comm No: Add. Investigation NK Soil Piles 68V7051

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** 

Depth:

Hours

Start Date 03/17/97 End Date 03/17/97

**Boring ID** 

NK-SB-284

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Depth:		At: At:	Hours	Easting:	
	Sam	ple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
-	1028260	92		Dark yellowish brown, fine SAND, trace organic matter, dry, loose	0
‡	1028261	92		Yellowish brown, fine SAND, trace(-) fine Gravel (process stone), dry, loose, trace organic matter	0
+4	1028262	67		Dark yellowish brown, fine SAND, trace(-) medium Sand, moist, loose	0
‡	1028263	67		Top 10": As Above, light brown; Bottom 6": Very dark brown to black, fine SAND, little Silt, wet, loose, wet at 6", slight petroleum odor	>100
+8 +	1028264	96		Dark brown to black, fine SAND, little Silt, little black, sapric organic matter, wet, loose, slight petroleum odor	100
‡	1028265	96		Top 3": As Above; Bottom 20": Greyish brown, medium to fine SAND (7"), grading to fine to medium SAND (8"), trace fine Gravel, trace coarse Sand in final 5", wet, loose	450
12 	1028266	62		Top 6": Yellowish brown, medium SAND, little coarse Sand, trace fine Gravel, wet, loose; Bottom 9": Grey, varved CLAY, moist, loose	2.0
‡	1028267	62	-	Grey, varved CLAY, moist, loose	0.5
16 	-			Bottom of Boring at 16'	
-20					
24					
†					

Add. Investigation NK Soil Piles Project: LEA Comm No: 68V7051 Client: Pratt & Whitney

Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core

**Groundwater Observations:** 

Depth:

Hours

**Start Date** 03/17/97 **End Date** 03/17/97

**Boring ID** 

NK-SB-285

Logged By: J. Trzaski

Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:		At:	Hours	Easting:	
	Sam	ple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows 76"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1028268	100		Dark yellowish brown, fine SAND, trace(-) medium Sand, trace organic matter, dry, loose	0
†	1028269	100		Yellowish brown, fine SAND, trace(-) medium Sand, moist, loose; Last 3": Blue grey, coarse GRAVEL (process stone)	0
<b>+4</b>	1028270	62		Yellowish brown, fine SAND, moist, loose	0
‡	1028271	62		Top 10": As Above, wet at 5"; Bottom 5": Dark yellowish brown, fine SAND, trace Silt, wet, loose	20
-8	1028272	71		Dark brown, fine SAND, trace Silt, trace(-) medium Sand, trace black, sapric organic matter, wet, loose	> 100
‡	1028273	71		Dark greyish brown to greyish brown, medium to fine SAND (5") grading to fine to medium SAND (7") to medium to fine SAND (5"), trace coarse Sand, wet, loose	400
+12	1028274	83		Top 5": Yellowish brown, medium SAND, little coarse Sand, trace fine Gravel, wet, loose; Bottom 15": Grey, varved CLAY, wet, loose	2.5
‡ †	1028275	83		Grey, varved CLAY, moist, loose	0.5
16				Bottom of Boring at 16'	
+					
20				•	
†					
24					
I	{	1 1			1

Drilling Co Drilling M Sampling l Groundwa Depth: Depth:	ethod: G Method: ter Observa	LEA ieoprobe Macro C tions: At:	ore Hours Hours	Logged By: J. Trzaski Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity,	(ppm)
·	1028280	96		Sedimentary Structures, Density, Cohesiveness  Top 2": Dark brown, fine SAND to Silt, trace organic matter, dry, loose; Middle 10": Yellowish brown, fine SAND, trace medium Sand, dry, loose; Bottom 11": Dark yellowish	0
†	1028281	96		brown, fine SAND, trace Silt, dry, loose, trace organic matter  Top 3": Same as last 11"; Middle 10": Yellowish brown,	0
<b>+4</b>	1028282	67		fine SAND, trace medium Sand, moist, loose; Bottom 10": Dark yellowish brown, fine SAND, moist, loose, wood pieces at bottom	1.0
‡	1028283	67		Dark yellowish brown fine SAND, trace Silt, trace organic matter, moist, loose; 1" layer: Light brown, fine to medium SAND at 5"; 2" layer: organic tree matter at 8"	0
±8	1028284	26		Top 4": Dark yellowish brown, fine SAND, trace Silt, moist, loose; Bottom 12": Yellowish brown, fine SAND, trace medium Sand, trace(-) coarse Sand, moist, loose	NR
+	1028285	25		Black, bituminous asphalt, little dark brown, fine SAND, trace Silt, trace organic matter  Dark brown, fine to medium SAND, moist, loose	NR
12	1028286	88		Top 6": Greyish brown, medium to fine SAND, trace coarse Sand, wet, loose, wet at 0"; Bottom 15": Yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose	9.0
†	1028287	88		Top 4": Same as above bottom 15"; Bottom 17": Grey, varved CLAY, wet, loose	0
+16				Bottom of Boring at 16'	
20					
<b>T</b>					
+ 24 +					

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7051 Client: Pratt & Whitney Location: East Hartford, CT

LEA **Drilling Contractor:** Drilling Method: Geopre Sampling Method: Macro Groundwater Observations: Geoprobe **Macro Core** 

Depth:

Hours 🚆

Start Date 03/18/97 **End Date** 03/18/97

**Boring ID** 

NK-SB-287

Logged By: J. Trzaski Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	Sar	nple Informa	tion	Sample Description	1
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
† °	1028288	96		Top 2": Organic debris; Middle 1': Dark brown, fine SAND, trace Silt, little organic matter, dry, loose; Bottom 9": Yellowish brown, fine SAND, trace organic matter, dry, loose	0
	1028289	96		Top 18": Same as above last 9"; Bottom 5": Light brown, fine SAND, trace medium Sand, trace organic matter, dry, loose	0
7	1028290	75		Top 3": Dark yellowish brown, fine SAND, trace Silt, trace organic matter, moist, loose; Bottom 15": Brownish yellow, fine SAND, moist, loose	0
-8	1028291	75		Top 2": As Above; Middle 4": Dark yellowish brown, fine SAND, trace bituminous asphalt, moist, loose; Bottom 12": Same as top 2"	0
-8 -	1028292 1028294	88		Top 14": Yellowish brown, fine to medium SAND, moist, loose; Bottom 7": Yellowish brown, medium to fine SAND, moist, loose	0
+	1028293	88		Top 10": As Above last 7", wet at 3"; Bottom 11": Greyish brown, medium to fine SAND, trace coarse Sand, wet, loose	90
+12	1028295	83		Top 13": Yellowish brown, medium to fine SAND, trace coarse Sand, trace(-) fine Gravel, wet, loose; Bottom 7": Grey, varved CLAY, wet, loose	3.0
‡	1028296	83		As Above last 7"	1.0
<del>-</del> 16				Bottom of Boring at 16'	
1	۰		:		
20					
‡					
24					
<u>t</u>	<u> </u>				]
Comments	: Hole b	ackfilled v	with bentor	nite chips	

Boring No: NK-SB-287

Add. Investigation NK Soil Piles om No: 68V7051 **Start Date** Boring ID LEA Comm No: 03/18/97 Client: Pratt & Whitney **End Date** NK-SB-288 Location: East Hartford, CT 03/18/97

Drilling Contractor: Drilling Method: Logged By: J. Trzaski Drilling Foreman: D. **LEA** D. Brisson Geoprobe Drill Rig: Geoprobe 5400 Surface Elevation: Sampling Method: Macro Core Groundwater Observations: Northing:

Depth: Hours

Deptn: Depth:		at: At:	Hours	Fasting:	
<del>-</del> -	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1028297	88		Top 2": Organic matter; Middle 1': Dark yellowish brown, fine SAND, trace Silt, little organic matter, dry, loose; Bottom 7": Yellowish brown, fine SAND, trace(-) process stone, fine and coarse Gravel, dry, loose	0
}	1028298	88		As Above last 7"	0
+4	1028299	88		Top 10": As Above, moist; Middle 5": Dark brown, fine SAND, trace Silt, trace organic matter, moist, loose; Bottom 6": Same as top 10"	0.5
†	1028300	88		Top 5": As Above last 6"; Bottom 16": Yellowish brown, fine SAND grading to fine to medium SAND, wet, loose, wet at 17"	0
-8	1028301	100		Yellowish brown to greyish brown, medium to fine SAND, trace(-) coarse Sand, wet, loose	80
	1028302			Top 1': As Above; Bottom 1': Grey, varved CLAY, moist to wet, loose	3.0
12				Bottom of Boring at 12'	
Ī					
16					
+					
†				·	
20					
†					
24					
‡			į		
Comments	: Hole ba	ackfilled v	with bentor	nite chips	L



Drilling Mo Sampling I Groundwa Depth: Depth:	Method: ter Observat A	At: At:	Hours Hours	Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1028303	79		Dark yellowish brown, fine SAND, trace Silt, trace organic matter, dry, loose	0
+	1028304	79		Yellowish brown, fine SAND, trace organic matter, dry, loose	0
+4	1028305	79		Top 17": As Above, moist; Bottom 2": Dark brown to black, SILT and fine SAND, moist, loose	0
‡	1028306	79		Top 3": Yellowish brown, fine SAND, moist, moderately dense; Middle 9": Dark brown to black, fine SAND, some Silt, little organic matter, moist, moderately dense; Bottom	0.5
+8	1028307	96		5": Brownish yellow, fine SAND, trace medium Sand, moist moderately dense  Yellowish brown, very fine SAND (3") grading to fine SAND	0.5
+12	1028310	96		(10") grading to fine to medium SAND (10"), wet, loose, wet at 0'  Yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose, Clay at tip	90
†				Bottom of Boring at 12.5'	
16					
‡					
20			:		
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Project: Add. Investigation NK Soil Piles
LEA Comm No: 68V7051
Client: Pratt & Whitney
Location: East Hartford, CT

Start Date
03/18/97
End Date
03/18/97
NK-SB-290

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core
Groundwater Observations:

Logged By: J. Trzaski
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation:

Depth: At: Hours West Hours Easting:

Depth:	<i></i>	\t:	Hours	₹ Easting:	
	San	iple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
	1028309	71		Dark yellowish brown, fine SAND, trace fine and coarse Gravel (at 14-17"), dry, loose	0
†	1028308	71		Top 7": Dark yellowish brown, fine SAND, dry, loose; Middle 3": Black, bituminous asphalt; Bottom 7": Same as Top 7", trace brick fragments	0
<b>1</b>	1028311	29		Yellowish brown, fine SAND, moist, loose	0
† †	1028312	29		Top 3": As Above; Bottom 4": Tree fragment	NR
<b>+8</b>	1028313	88		Top 6": Yellowish brown, fine SAND, wet, loose; Bottom 15": Yellowish brown, fine to medium SAND, wet, loose	15
‡ <u>‡</u>	1028314	88		Top 16": As Above last 15"; Bottom 5": Greyish brown, medium to fine SAND, trace coarse Sand, wet, loose	100
- 12 - 1	1028315	96		Top 2": As Above last 5"; Bottom 21": Grey, varved CLAY, wet, loose	1.0
+	1028316	96		Grey, vared CLAY, wet, loose	1.0
16				Bottom of Boring at 16'	
20			i		
-24					
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LEA

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Project: Exp. Strg. UST LEA Comm No: 68V7051 Client: Pratt & Whitney Location: East Hartford, CT

LEA **Drilling Contractor: Drilling Method:** Geoprobe Sampling Method: Macro Core **Groundwater Observations:** 

Depth: Depth:

At:

Hours

Start Date 03/19/97 **End Date** 03/19/97

**Boring ID** 

NK-SB-291

Logged By: J. To Drilling Foreman: J. Trzaski D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation:

Depth: Depth:		At: At:	Hours Hours	Northing: Easting:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1028300	100		Top 1": Organic debris; Bottom 23": Dark brown, fine SAND, dry, moderately dense, process stone Cobble at 1', trace organic matter	0
‡ ‡	1028321			Yellowish brown, fine SAND, moist, moderately dense	0
+4	1028322	96		Yellowish brown, fine to very fine SAND, moist, loose, black lense at 4"	0
† †	1028323			Top 1': Yellowish brown, fine SAND, moist, loose, wet at 7'; Bottom 10": Yellowish brown, fine to medium SAND, wet, loose	0.2
+8 + +	1028617	92		Top 5": Same as above last 10"; Middle 2": Reddish brown, SILT, wet, loose; Bottom 15": Yellowish brown, fine SAND, wet, loose	2.0
† + +12	1028618			Top 8": Same as above last 15"; Next 2": Reddish brown, SILT, wet, loose; Next 7": Yellowish brown, fine to very fine SAND, wet, loose; Bottom 5": Grey, varved CLAY, wet, loose	1.8
†				Bottom of Boring at 12.5'	
16					
20					
24					
Comments	: Hole b	ackfilled v	with bentor	nite chips	



rilling Me ampling P roundwar epth: epth:	Method: ter Observat A	eoprobe Macro ( tions: \t: \t:	Hours Hours	Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
срец.		ple Informa		Sample Description	
levation/ epth	Sample No.	Recovery (な)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
T°	1028619	100		Top 1': Dark brown, fine SAND, little Silt, trace organic matter, dry, loose; Bottom 1': Yellowish brown, fine SAND, dry, moderately dense	0
‡	1028620			Top 1': Same as above last 1', moist; Middle 7": Greyish brown, fine SAND, moist, moderately dense; Bottom 5": Yellowish brown, fine to medium SAND, moist, loose, reddish orange staining at 1.6	0.5
	1028621	96		Yellowish brown, fine SAND grading to fine to medium SAND, wet, loose, wet at 1'	0.4
<u> </u>	1028622		-	Yellowish brown, fine to medium SAND, wet, loose	0
8	1028623	79		Top 6": Yellowish brown, fine SAND, wet, loose; Bottom 13": Yellowish brown, fine to very fine SAND, wet, loose	100
‡	1028624			Top 14": Yellowish brown, fine to very fine SAND, wet, loose; Bottom 5": Grey, varved CLAY, wet, loose	6
<b>+12</b>				Bottom of Boring at 12'	
16					
20					
24					

Project: X-194 Add. Inv. Former AST **Start Date Boring ID** 05/22/97 End Date LEA Comm No: 68V7062 Client: Pratt & Whitney NK-SB-293 Location: East Hartford, CT 05/22/97 Logged By: I. Rosovsky
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Geoprobe D. Brisson Sampling Method: Macro Core **Groundwater Observations:** 

Groundwat Depth: Depth:	1	itions: At: At:	Hours Hours	Surface Elevation:  Northing: Easting:	
	San	nple Informat	ion	Sample Description	T
Elevation/ Depth	Sample No.	Recovery (2)	B)ows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1634105	67		Very fine light brown SAND, some Silt, moist, very dense, some black organic particles	0
‡	1634106	67		Yellowish-brown, fine SAND, some Silt, moist to wet, very dense	0
+4				Bottom of Boring 4'	
8					
12					
† † † † † † † † † † † † † † † † † † †					
16					
24					
Comments	Borina	backfilled	l with bent	conite	

Project: X-194 Add. Inv. Former AST **Start Date** Boring ID 68V7062 LEA Comm No: 05/22/97 Client: Pratt & Whitney **End Date** NK-SB-294 East Hartford, CT Location: 05/22/97 I. Rozovsky **Drilling Contractor:** LEA Logged By: Drilling Foreman: D. Brisson Geoprobe Drilling Method: Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: Hours Depth: At: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1634107 88 ō Very fine SAND, some Silt, brownish-black, some organic matter, moist, dense 0 1634108 88 Light brown, very fine SAND, some medium Sand, moist, Bottom of Boring at 4' Printed On: 2/9/1998 16 20 24 Boring backfilled with bentonite Comments:

Page 1 of 1 Project: X-194 Add. Inv. Former AST LEA Comm No: 68V7062 Start Date **Boring ID** 05/20/97 Client: Pratt & Whitney **End Date** NK-SB-295 East Hartford, CT Location: 05/20/97 I. Rozovsky **Drilling Contractor:** LEA Logged By: Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson Drilling Method: Geoprobe Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Hours ₹ Northing: Depth:

Depth: Depth:	Ä	At: At:	Hours	Easting:	
	Sam	iple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
P	1634092	70		Fine SAND, yellowish, slightly moist, loose; 3' to 4' very fine SAND, little greyish-brown Silt, moist, loose	3.5
Ī	1634093	70			8.5
+4				Bottom of Boring 4'	
‡				•	
‡					
+8					
ŧ	ţ				
12					
‡					
‡					
+16					
‡					
20					
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<u> </u>					
24					
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Comments	: Boring	backfille	d with bent	conite	

Drilling Co Drilling M Sampling I Groundwa Depth: Depth:	ethod: G Method: ter Observat A	At: At:	Hours Hours	Logged By: I. Rozovsky Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity,  Sedimentary Structures, Density, Cohesiveness	(ppm)
	1634094 1634095	60		Top 3": Black, fine SAND, moist, some Silt, very fine Sand, brownish-black, moist, loose; Bottom 45": Yellowish-brown SILT, some very fine Sand, moist	2.5
+12 +16 +20				Bottom of Boring 4'	
-24	: Boring	backfilled	l with bent	onite	

					e 1 of 1
roject: EA Comr	North Klone	dike Soil TR656	Piles	Start Date 8/8/96 B	oring ID
lient: P	ratt & Whit	ney	•	End Date	K-SB-53
ocation:	East Harti			0/0/30	X-3D-33
rilling Co	ntractor: ethod: H	LEA and Aug	er	Logged By: F. Postma Drilling Foreman: B.	Tomicic
ımpling l	Method:	<b>Bucket</b>	Auger	Drill Rig: Hand Auger	
roundwa: epth: N	ter Observat M	nons: \t:	Hours	Surface Elevation:  Northing: Easting:	
epth:	A	\t:	Hours		
	Sam	ple Informa	tion	Sample Description	
evation/ pth	Sample No.	Recovery (欠)	Blows /6*	Color, Primary Grain Size, Secondary Grain Size Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	S, (ppm)
0	1016798	100		Yellowish brown, fine SAND, some medium Sand, le moist, plastic sheeting, brick fragments, metal	ose,
†	1016799	100		As above	
4	1016800	100		As above; Strong brown to black, fine SAND, little smoderately dense, moist	Silt,
<u> </u>	-	1		Auger refusal at 6.2'	
<u>†</u>				•	
<del>+</del> 8		1 1			
‡					
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‡		1 1		·	
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16		1 1			
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I		1 1	المعادية	-topic objection	
omments	: Boreho	e Dackfil	ilea with be	ntonite chips upon completion.	

Project: X-410 Area LEA Comm No: 68TR667			Start Date 8/15/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT			End Date 8/15/96	NK-SB-54
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro cor Groundwater Observations:			Logged By: L. E Drilling Foreman: Drill Rig: Geop Surface Elevation:	J. Sweeton
Depth: NM At:	Hours	<b>¥</b>	Northing:	

Depth:		At:	Hours	Easting:		
	Sau	mple Informa	rtion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1017186	100		12": Brown, fine SAND and SILT, trace medium Sand, trace(-) fine Gravel, ash, moist, loose; 11": Dark brown black, fine SAND and SILT, moist, loose	0.0	
Ī	1017188	100		18": As above; 5": Brown, fine to medium SAND, with Silt, little coarse Sand, very moist, loose	0.0	
+4	1017189	100		As above, wet	0.0	
‡	1017190	100		Yellowish brown, medium to coarse SAND, some fine trace Silt, trace(-) fine Gravel, wet, loose	0.1	
+8	1017191	100		As above	0.3	
‡	1017192	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.2	
+12	1017193	100		As above	0.0	
1	1017194	100		As above	0.0	
<del>+</del> 16				Bottom of boring 15'		
20						
24						
†						
Commen	ts: Boreho	ole backfi	lled with be	entonite chips upon completion.		



Project: X-410 Area LEA Comm No: 68TR667 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro core

Groundwater Observations: Depth: NM

**Start Date** 8/15/96 **End Date** 8/15/96

Boring ID

NK-SB-55

L. Bianchi

J. Sweeton

Logged By: L. Bianch Drilling Foreman: Drill Rig: Geoprobe Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:		
	Sar	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (と)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
-	1017195	100		12": Brown, fine SAND and SILT, trace medium Sand, trace(-) fine Gravel, ash, moist, loose; 11": Dark brown/black fine SAND and SILT, moist, loose	0.0	
<b>T</b>	1017196	100		10": As above; 13": Brown, fine to medium SAND, with Silt, little coarse Sand, very moist, loose	0.0	
<b>†</b> 4	1017198	100		As above; wet	0.0	
‡	1017199	100		Yellowish brown, medium to coarse SAND, trace fine Sand, trace(-) Silt, wet, loose	0.1	
+8	1017200	100		As above	0.0	
Į	1017201	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
12	1017202	100		As above	0.0	
†	1017203	100		As above	0.0	
16				Bottom of boring at 15.0		
20						
+ - - 24 - -						
Comments		<u> </u>		entonite chips upon completion.		

EOLOG	SIC BOR	ING L	OG	Page 1 of 1	
LEA Com	ratt & Whiti	TR667 ney	,	Start Date 8/15/96 Boring ID End Date 8/15/96 NK-SB-56	
crilling Co crilling Mo ampling I Froundwar bepth: N	ontractor: ethod: G Method: ter Observat	LEA eoprobe Macro c	Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe Surface Elevation: Northing:	
epth:		t:	Hours	T AMOUNG.	
Devation/ Depth	Sample No.	Recovery	Blows /6°	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity,  Sedimentary Structures, Density, Cohesiveness	(ppm
°	1017204	100		10": Brown, fine SAND, with Silt, trace medium Sand, trace(-) fine Gravel, ash, moist, loose; 13": Dark brown black, fine SAND and SILT, moist, loose	0.1
‡	1016776	100	·	15": As above; 8": Brown, fine to medium SAND, with Silt, little coarse Sand, very moist, loose	0.0
+4	1016777	100		As above; wet	0.0
† †	1016778	100		Yellowish brown, medium to coarse SAND, some fine Sand, trace Silt, trace(-) fine Gravel, wet, loose	0.1
+8	1016779	100		As above	0.4
‡	1016780	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
12	1016781	100		As above	0.0
<b>†</b>	1016782	100		As above	0.0
+ + 16 + + +				Bottom of boring at 15.0'	
20					
-24					

Borehole backfilled with bentonite chips upon completion.

Printed On: 1/22/1998

Project: X-194 Area **Start Date Boring ID** 9/26/96 End Date 68VC606 LEA Comm No: Client: Pratt & Whitney NK-SB-57 Location: East Hartford, CT 9/26/96 Logged By: L. B Drilling Foreman: **Drilling Contractor:** LEA L. Bianchi J. Sweeton

Drilling Method: Geopro Sampling Method: Macro Groundwater Observations: Geoprobe Macro Core Drill Rig: Geoprobe 5400

Surface Elevation:

Hours 🚆 Northing: Depth: NM

Depth:	A	At:	Hours	Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
0	1018548	100		3": Dark brown, fine SAND, with Silt, moist, loose, root fragments; 20": Light yellow, fine SAND, little Silt, trace medium Sand, moist, loose	0.0	
‡	1018549	100		As above, wet	0.6	
+4	1018550	100		As above	1.4	
	1018551 1018552	100		Strong brown, medium SAND, some fine SAND, little coarse Sand, trace Silt, wet, loose	0.2	
+8	1018553	100		As above	0.0	
† †	1018554	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
12	1018555	100		As above	0.0	
Ŧ	1018556	100		As above	0.0	
16				Bottom of boring at 15.0'		
+ 				-		

Project: X-194 Area 68VC606 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA

**Drilling Method:** Geoprobe Sampling Method: Maci Groundwater Observations: Macro Core

Depth: NM At: At: Depth:

**Start Date** 9/26/96 **End Date** 9/26/96

**Boring ID** NK-SB-58

L. Bianchi

Logged By: L. Bi Drilling Foreman: Drill Rig: Geopre Surface Elevation: Northing: J. Sweeton Geoprobe 5400

Easting:

Depth:	A	ke: kt:	Hours Hours	* Northing: Easting:		
	Sam	ple Informat	ioa	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1018557	100		5": Dark brown, fine SAND, with Silt, moist, loose; 18": Strong brown, fine SAND, little medium Sand, trace Silt, moist, loose	1.0	
<b>‡</b> [	1018558	100		As above, wet	2.4	
+4	1018559	100		As above	0.4	
<b>‡</b>	1018560	100		As above	0.4	
*	1018561	100	-	As above	0.2	
‡	1018562	100		16": As above; 7": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
12	1018563	100		As above	0.0	
‡ <b> </b>	1018564	100		As above	0.0	
16				Bottom of boring at 15.0'		
20						
+ + + + + + + + + + + + + + + + + + + +						
+24						

Project: X-194 Area LEA Comm No: 68VC606 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geopre Sampling Method: Maci Groundwater Observations: Geoprobe Macro Core

Depth: NM At:

Hours

Start Date 9/25/96 End Date 9/25/96

**Boring ID** 

**NK-SB-59** 

L. Bianchi Logged By:

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:		<b>\t:</b>	Hours	₹ Easting:		
	San	ple Informa	ation.	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
T o	1018538	100		Dark brown, fine SAND and SILT, trace medium Sand, moist, loose	0.4	
<b>†</b> †	1018539	100		10": As above; 13": Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.1	
+4	1018540	100		As above	0.2	
†	1018541	100		As above	0.0	
8				No Recovery		
‡ †	1018543	50		Olive grey, varved CLAY, trace Silt, wet, stiff	0.1	
12	1018544	100		As above	0.0	
†	1018545	100		As above	0.0	
16				Bottom of boring at 15.0'		
+ + 20						
†						
+24						

Groundwater Observations:

Project: X-194 Area LEA Comm No: 68VC606 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core Start Date 9/24/96 **End Date** 9/24/96

**Boring ID** 

**NK-SB-60** 

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Northing:

Depth: NM At: Hours Hours Easting: Depth: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1015811 100 0.0 Light yellowish brown, fine to medium SAND, trace Silt, moist, loose 100 0.0 1015812 Olive brown, fine to medium SAND, some coarse Sand, little Silt, moist, loose 1015813 0.0 100 As above 1015814 100 0.0 As above, wet No recovery 1015816 15 0.0 Olive grey, varved CLAY, trace Silt, wet, stiff 12 1015817 100 0.0 As above 0.0 1015818 100 As above Bottom of boring at 15.0' 16 20 24 Boring Comments: Borehole backfilled with bentonite chips upon completion.

Project: X-194 Area LEA Comm No: 68V 68VC606 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations: Depth: NM Depth: At: At:

Start Date 9/26/96 **End Date** 9/26/96

Boring ID

NK-SB-61

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

Depth:		At:	Hours	Easting:		
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ް	1018565	100		6": Dark brown, fine SAND, with Silt, moist, loose; 17": Strong brown, fine to medium SAND, little Silt, trace coarse Sand, very moist, loose	0.7	
‡	1018566	100		As above, wet	0.1	
+4	1018567	50		As above	0.0	
† †	1018568	50		As above	0.3	
†8 †	1018569	50	:	Olive grey, varved CLAY, trace Silt, wet, stiff	0.4	
ļ	1018570	50		As above	0.0	
†12 †	1018571	100		As above	0.0	
‡	1018542	100		As above	0.0	
† + 16 +				Bottom of boring at 15.0'		
20						
-24	٠.					
Comments	: Boreho	ole backfil	led with be	entonite chips upon completion.		

Project: X-194 Area **Start Date Boring ID** 68VC606 LEA Comm No: 9/24/96 Client: Pratt & Whitney **End Date** NK-SB-62 Location: East Hartford, CT 9/24/96 Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Maci Groundwater Observations: Geoprobe J. Sweeton Macro Cord Northing: Depth: NM Hours

Depth:		At:	Hours	Easting:		
	Saz	nple Informa	rtion.	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1018502	100		5": Dark brown, fine SAND and SILT, moist, loose root fragments; 18": Reddish brown, fine to medium SAND, little Silt, moist, loose	0.0	
†	1018503	100		Dark greyish brown, fine to medium SAND, little Silt, moist, loose	0.0	
+4	1018504 1018505	100		As above	0.0	
†	1018506	100		As above, wet	0.4	
-8	1018507	100		Olive brown, fine to medium SAND, some coarse, trace Silt, wet, loose	2.1	
†	1018508	100		11": As above; 12": Olive grey, varved CLAY, trace Silt, wet, stiff	1.0	
+12	1018509	100		As above	0.0	
<del> </del>	1018510	100	·	As above	0.0	
16				Bottom of boring at 15.0'		
20						
24						
	L	11	<u></u>			
Comments	: Boreho	ole backfi	illed with be	entonite chips upon completion.		



Project: X-194 Area LEA Comm No: 68V 68VC606 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** 

Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe Macro Core

Depth: NM At:

Start Date 9/25/96 **End Date** 9/25/96

Boring ID

**NK-SB-63** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Sample No.	Recovery (2)	Blows	Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
	Recovery (%)	Blows		1
1018521	11	∕b⁻	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	100		4": Dark brown, fine SAND, some Silt, moist, loose; 19": Reddish yellow, fine SAND, little medium Sand, trace Silt, very moist, loose	0.3
1018522	100		Greyish brown, fine to medium SAND, some Silt, trace coarse Sand, wet, loose	0.0
1018523	50		Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.0
1018524	50		As above	0.0
1018525	100		8": Dark reddish brown, medium SAND, with fine Sand, little coarse Sand, trace Silt, wet, loose; 15": Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet,	0.0
1018526	100		17": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
1018527	100		As above	0.0
1018528	100		As above	0.0
			Bottom of boring at 15.0'	
	1018524 1018525 1018526	1018524 50 1018525 100 1018526 100 1018527 100	1018524 50 1018525 100 1018526 100 1018527 100	coarse Sand, wet, loose  Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose  1018524 50 As above  1018525 100 8": Dark reddish brown, medium SAND, with fine Sand, little coarse Sand, trace Silt, wet, loose; 15": Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose 17": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff  1018527 100 As above

Project: X-194 Area
LEA Comm No: 68VC606
Client: Pratt & Whitney
Location: East Hartford, CT
Drilling Contractor: LEA

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core

**Groundwater Observations:** 

Depth: NM At: Hours
Depth: At: Hours

Start Date 9/25/96 End Date 9/25/96

Boring ID NK-SB-64

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Easting:

Depth:	At: Hours			₹ Easting:			
	Sar	nple Informs	ation	Sample Description			
Elevation/ Depth	Sample Recovery Blows (%) /6"		Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness			
T °	1018529	100		Brown, fine SAND and SILT, trace medium Sand, moist, loose	0.4		
† †	1018530	100		Olive brown, medium SAND, with fine Sand, little Silt, wet, loose	0.0		
+4	1018531	100		As above	0.7		
‡	1018532	100	. 111	As above	0.0		
<b>+</b> 8	1018533 1018534	50		Olive brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	0.4		
†	1018535	50		10": As above; 2": Olive grey, varved CLAY, trace Silt, wet, stiff	0.4		
12	1018536	100		As above	0.2		
Ī	1018537	100		As above	0.0		
16				Bottom of boring at 15.0'			
20							
24							
Comments	: Boreho	ole backfi	illed with be	entonite chips upon completion.			

LEA

Project: X-415 Area LEA Comm No: 68VC608 Client: Pratt & Whitney East Hartford, CT Location: **Drilling Contractor: LEA Drilling Method:** Geoprobe Sampling Method:

Macro Core Groundwater Observations: Depth: NM At: Hours At: Hours **Start Date** 9/30/96 **End Date** 10/1/96

**Boring ID NK-SB-65** 

Logged By: L. B Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Easting:

Depth:	MIVI	At:	Hours	Easting:	
	S	ample Informa	tion	Sample Description	]
Elevation/ Depth	Sample No.	Recovery (次)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
·	1018628	100		12": Black, fine SAND and SILT, moist, slightly stiff; 11": Olive brown, fine SAND and medium SAND, moist, loose	0.0
‡	1018629	100		As above	0.0
+4	1018630	100		As above	7.1
† †	1018688	75		Strong brown, fine to medium SAND, trace Silt, wet, loose	3.4
+8 +				Bottom of boring at 8.0'	
+12	2				
+16					
+ 24					

Sample 1018688 was collected on 10/1/96 1' away from the original boring.

Printed On: 1/23/1998

Project: X-415 Area Start Date Boring ID 9/30/96 68VC608 LEA Comm No: **End Date** Client: Pratt & Whitney NK-SB-66 Location: East Hartford, CT 10/1/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Method: Drilling Foreman: J. Sweeton Geoprobe Geoprobe 5400 Macro Core Drill Rig: Sampling Method: Surface Elevation: Groundwater Observations: Depth: NM At: Hours Northing: Hours Depth: At: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. ecover Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018624 100 0.0 10": Black, fine SAND and SILT, moist, slightly stiff; 13": Olive brown, fine to medium SAND, trace Silt, moist, loose 1018625 1018626 100 0.0 As above 1018627 100 1.1 As above 1018687 75 3.6 Strong brown, fine to medium SAND, trace Silt, wet, loose Bottom of boring at 8.0' Printed On: 1/23/1998 16 20

Comments:

Borehole backfilled with bentonite chips upon completion.

Sample 1018687 was collected on 10/1/96 1' away from the original boring.

Project: X-415 Area 68VC608 LEA Comm No: Client: Pratt & Whitney East Hartford, CT Location: **Drilling Contractor:** LEA

Drilling Method: Geoprobe Sampling Method: Macro Core

At:

**Groundwater Observations:** At:

Depth: NM Depth:

Hours Hours

Start Date 9/30/96 **End Date** 10/1/96

Boring ID

**NK-SB-67** 

L. Bianchi

Logged By: L. B. Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

1	NOI	th	in	2:
ī	200	4:-		<b>-</b> -
1	Cas	tir	100	

		AL:	Hours	÷ rasung:	<b>,</b>
	San	nple Informa	tion	Sample Description	1
Devation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
-	1018621	100		12": Black, fine SAND and SILT, moist, slightly stiff; 11": Olive brown, medium SAND, some fine Sand, trace Silt, moist, loose	0.0
† †	1018622	100		As above	15.0
<b>14</b>	1018623	100		As above	2.5
-	1018685 1018686	100		Strong brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	6.3
+8				Bottom of boring at 8.0'	
ļ ·					
‡ 					
+12					
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16			:		
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20					
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Comments		es 10186	illed with be 385 and 10	ntonite chips upon completion. 18686 were collected on 10/1/96 1' away from the original	<u> </u>

								rage I of I	
	X-415 Area n No: 68\			1	Y		Start Date 9/30/96	Boring II	)
Client: Pr	ratt & Whitr East Hartf	ney		0			End Date 9/30/96	NK-SB-6	8
Drilling Co Drilling Me Sampling Me Groundwat Depth: No Depth:	ethod: Ge Method: ter Observati M A	LEA eoprobe Macro C ions: t:	Core House	Å.			Logged By: L. Drilling Foreman Drill Rig: Geor Surface Elevation Northing: Easting:	probe 5400	
	Samp	ple Informat	ion			S	Sample Description		T
Elevation/ Depth	Sample	Recovery	Blows	Co			ain Size, Secondary G		]

Depth:		At:	Hours	Easting:	
	Saz	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows ∕6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1018631	100		12": Black, fine SAND, with Silt, moist, slightly stiff; 11": Olive brown, fine to medium SAND, trace Silt, moist, loose	0.0
‡	1018632	100		As above	0.0
-4	1018633	100		As above	0.6
†				Bottom of boring at 6.0'	
+8 + +					
† † †					
+12 +					
+16					
+					
-20					
† †					
<b>+24</b>					
Comments	Roreho	le backfil	led with he	ntonite chips upon completion.	1

GEOLOG	SIC BOR	ING L	OG ·			Page 1 of 1	
LEA Comi Client: P	X-415 Area n No: 68' ratt & Whit East Harti	VC608 ney		all	Start Date 9/30/96 End Date 9/30/96	Boring II NK-SB-6	
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observat M A	LEA leoprobe Macro C tions: At:		₩.	Logged By: L. E Drilling Foreman: Drill Rig: Geop Surface Elevation: Northing: Easting:	J. Sweeton robe 5400	
	Sam	ple Informa	tion		Sample Description		
Elevation/ Depth	Sample No.	Recovery (と)	Blows /6"	Moistur	ary Grain Size, Secondary Gr e, Sorting, Sphericity, Angula ary Structures, Density, Cohes	arity,	(ppm)
l °	1018634	100			SAND and SILT, moist, sligh to medium SAND, trace Sil		0.0

	San	nple Informs	stion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (え)	Blows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1018634	100		11": Black, fine SAND and SILT, moist, slightly stiff; 12": Olive brown, fine to medium SAND, trace Silt, moist, loose	0.0
†	1018635	100		As above	0.0
4	1018636	100		As above	0.0
†			·····	Bottom of boring at 6.0'	
+ 8 +					
+					
12					
†					
16					
† † †					
20					
†					
-24					
‡					
Comments	: Boreho	le backf	illed with b	entonite chips upon completion.	

Project:	X-415 Area	3		Start Date Roging II	
LEA Com	n No: 68	VC608		Start Date Boring II	ן ע
Client Pr	ratt & Whit			Red Date	
Location:	East Harti	ford CT	_	9/30/96 NK-SB-7	'O
	Lastriait				<del></del> (
Drilling Co	ntractor:	LEA	•	Logged By: L. Bianchi	il
Drilling Mo	ethod: G	eoprobe		Drilling Foreman: J. Sweeton	' 'I
Sampling N	Method:	Macro (	Core	Drill Rig: Geoprobe 5400	l l
Groundwat	ter Observat	tions:	Y	Surface Elevation:	il
Depth: N	M .	kt:	Hours	V Northing: Easting:	1
Depth:		\t:	Hours	₹ Easting:	1
		ple Informa		Sample Description	<del></del>
	3411	the morns	1001		-† 11
Elevation/			1	Color, Primary Grain Size, Secondary Grain Sizes,	1 11
Depth	Sample No.	Recovery	Biows /6*	Moisture, Sorting, Sphericity, Angularity,	(ppm)
		1		Sedimentary Structures, Density, Cohesiveness	
10	1018637	100		10": Black, fine SAND and SILT, moist, slightly stiff; 13":	0.0
<b>†</b>	.0.000.	1	i		] 5.5
+ 1		1 1	1	Olive brown, fine to medium SAND, trace Silt, moist, loose	1 1
+		1 1			1 1
†	1018638	100		As above	0.0
†	.5.5555		}	V9 @no.4g	
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<b>+</b> 4	1018639	100		As above	0.0
†	1010005	'00	ļ	As above	0.0
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Comments	e Rozebo	le heckfi	lied with he	entonite chips upon completion.	
		io Dackil		and allika about combination.	Ħ
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Project: X-415 Area Start Date Boring ID 10/1/96 End Date LEA Comm No: 68VC608 Client: Pratt & Whitney **NK-SB-71** Location: East Hartford, CT 10/1/96 Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Macr
Groundwater Observations:
Denth: NAM Logged By: L. Bianchi
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400 Geoprobe J. Sweeton Macro Core Surface Elevation: Marray D

Depth: Ni Depth:	M A	At: At:	Hours Hours	□ Northing: □ Easting:	
		nple Informa		Sample Description	1
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1018689	75		Strong brown, fine to medium SAND, trace Silt, wet, loose	6.0
+8				Bottom of boring at 8'	
†					
+ 12					
‡ ‡					
+ 16					
‡ †					
20					
+					
24					
Ĭ					
‡					
28					
† †					
Comments	Samuel 1		+ C O' intern	val; borehole backfilled with bentonite chips upon	

Comments:

Sampled only at 6-8' interval; borehole backfilled with bentonite chips upon completion.



Project: X-415 Area **Start Date Boring ID** LEA Comm No: 68VC608 10/2/96 Client: Pratt & Whitney **End Date** NK-SB-72 Location: East Hartford, CT 10/2/96 LEA Logged By: L. Bi Drilling Foreman: L. Bianchi **Drilling Contractor:** Geoprobe Drilling Method: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Sampling Method: Macro Core **Groundwater Observations:** Depth: NM Hour Northing:

Depth: NN Depth:	n A	At: At:	Hours Hours	₩ Northing: ₩ Easting:		
<del></del>	Sample Information		ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
#	1018690	100		Strong brown, fine SAND and medium SAND, some Silt, little coarse Sand, wet, loose		
**				Bottom of boring at 8.0'		
+12						
†						
16						
20				· .		
24						
+28					-	
120						
Ŧ						

mments: Sampled only at 6-8' interval; borehole backfilled with bentonite chips upon completion.

Boring No: NK-SB-73

Project: X-415 Area
LEA Comm No: 68VC608
Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Large Groundwater Observations: Large Bore Depth: NM

**End Date** 10/1/96

**Start Date Boring ID** 10/1/96 **NK-SB-73** 

Logged By: L. Bianchi Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth: NN Depth:	1 2	At: At:	Hours	Northing: Easting:	
<del></del>		nple Informat		Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1	1018684	75		Strong brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	2.4
+8				Bottom of boring at 8.0'	
†					
+12					
†					
‡					
16					
‡					
‡					
20					
‡					
+24					
†					
‡					
28					
‡					
<u> </u>					
Comments:	Sample	ad only a	t 6-8' inten	/al; borehole backfilled with bentonite chips upon	

Comments:

Sampled only at 6-8' interval; borehole backfilled with bentonite chips upon completion.

Project: X-430 Area Add. Invest. Start Date **Boring ID** LEA Comm No: 68VC609 10/3/96 Client: Pratt & Whitney **End Date** NK-SB-74 Location: East Hartford, CT 10/3/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: Drill Rig: Geopre Surface Elevation: **Drilling Method:** Geoprobe J. Sweeton Sampling Method: Macro core/Large bore Geoprobe 5400 **Groundwater Observations:** Hours T Northing: Depth: NM

Depth:	At: Hours		Hours	₩ Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
°	1018663	100		Dark brown, fine to medium SAND, little coarse, trace(+) Silt, trace(-) rip rap, moist, loose	0.0	
‡	1018664	100		Brown, medium SAND and fine SAND, some coarse Sand, little Silt, very moist, loose	0.0	
+4	1018665 1018683	100		As above, wet	0.0	
† †	1018684	100		As above	0.0	
<b>+</b> 8	1018685	25		As above	0.0	
† † †	1018686	25		Brown, fine SAND and SILT, wet, loose	0.0	
12				Bottom of boring at 12.0'		
16						
20						
24						
‡						

Comments:

Borehole backfilled with bentonite chips upon completion.

**GEOLOGIC BORING LOG** Page 1 of 1 Project: X-430 Area Add. Invest. Start Date **Boring ID** 68VC609 10/2/96 LEA Comm No: **End Date** Client: Pratt & Whitney NK-SB-75 East Hartford, CT Location: 10/2/96 **Drilling Contractor:** Logged By: LEA L. Bianchi Drilling Method: Geoprobe Drilling Foreman: J. Sweeton Sampling Method: Drill Rig: Geoprobe 5400 Macro core/L Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing: Hours Depth: At: Easting: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018648 100 0.0 Dark brown, fine SAND, little Silt, trace(+) medium Sand, moist, loose, root fragments 1018649 100 0.2 10": As above; 13": Strong brown, fine to medium SAND, trace Silt, very moist, loose 1018650 0.9 100 As above, wet Bottom of boring at 6.0'

Comments: Borehole backfilled with bentonite chips upon completion.

12

16

EA Com	X-430 Area n No: 68 ratt & Whit East Hart	VC609 ney		Start Date 10/2/96 End Date 10/2/96	Boring II NK-SB-7	
Drilling Co Drilling Mo Sampling No Groundwat Depth: No Depth:	ethod: G Method: ter Observa M A	LEA leoprobe Macro o tions: \t: \t:	core/Large	Logged By: Drilling Fore Orill Rig: Surface Elev Northing: Easting:	eman: J. Sweeton Geoprobe 5400	
	San	pie Informa	tion	Sample Description		
levation/ epth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Seconda Moisture, Sorting, Sphericity, A Sedimentary Structures, Density,	Angularity,	(ppm)
ŀ	1018651	100		Dark brown, fine SAND, some Silt, trac moist, loose, root fragments	ce(+) medium Sand,	0.0
+	1018652 1018653	100		12": As above; 11": Strong brown, fine very moist, loose	e SAND, little Silt,	0.4
+4	1018654	100		As above, wet		0.0
‡ <u>†</u>				Bottom of boring at 6.0'		
8						
‡						
‡						
+12 +						
† †						
16						
‡						
+20						
+24				_		
<u> </u>						
omments	: Boreho	le backfi	Hed with be	tonite chips upon completion.		

Project: X-430 Area Add. Invest. LEA Comm No: 68VC609 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor: LEA** Geoprobe

Drilling Method: Sampling Method: Macro core/Large **Groundwater Observations:** 

Depth: NM At: Hours

Start Date 10/2/96 End Date 10/2/96

Boring ID

**NK-SB-77** 

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	At: Hours Sample Information			Easting: Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Recovery Blows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
T °	1018658	100		5": Concrete; 3": Subbase; 15": Brown, fine SAND, little Silt, moist, loose	0.0	
† †	1018659	100		15": Black, fine SAND and SILT, moist, slightly stiff; 8": Strong brown, fine SAND, little medium Sand, trace Silt, moist	6.4	
+4	1018660	100		As above, wet	0.0	
† †		† †		Bottom of boring at 6.0'		
+8						
ŧ						
+12						
‡						
<u> </u>						
16						
<del> </del> <del> </del>				_		
20						
Ţ						
‡						
+24						
<u> </u>						
Comments	: Boreho	ole backfil	lled with be	entonite chips upon completion.		



Project: X-430 Area Add. Invest. **Start Date Boring ID** LEA Comm No: 68VC609 10/2/96 Client: Pratt & Whitney **End Date NK-SB-78** East Hartford, CT 10/2/96 Location: LEA Logged By: L. Bianchi **Drilling Contractor: Drilling Method:** Drilling Foreman: Geoprobe J. Sweeton Geoprobe 5400 Drill Rig: Sampling Method: Macro core/Large Groundwater Observations: Surface Elevation: Northing: Depth: NM At: Hours Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. ecover (४) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018655 100 0.3 Dark brown, fine SAND, trace Silt, moist, loose, root fragments 1018656 100 6.9 10": As above; 13": Light yellowish brown, fine SAND, trace Silt, moist, loose 1018657 100 6.0 Strong brown, fine SAND, some medium Sand, trace Silt, wet, loose Bottom of boring at 6.0' Printed On: 1/23/1998 20 Borehole backfilled with bentonite chips upon completion. Comments:



			<b>, M</b>		
Project: X-430 Area Add. Invest. LEA Comm No: 68VC609		<b>Q</b> P	10	Start Date 10/3/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		1		End Date 10/3/96	NK-SB-79
Drilling Contractor: LEA Drilling Method: Geographe	V			Logged By: L	. Bianchi

Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting: Sampling Method: Macr Groundwater Observations: Depth: NM At: Macro core/Large bore Hours ₹

Depth:	At: Hours			Easting:			
	Sar	mple Informa	tion	Sample Description			
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness			
P	1018687	100		Dark brown, fine to medium SAND, some coarse Sand, little Silt, moist, loose, root fragments	0.0		
<u> </u>	1018688	100	-	Brown, medium SAND and fine SAND, some coarse Sand, little Silt, very moist, loose	0.1		
+4	1018689	100		As above, wet	1.4		
Ŧ	1018690	100		As above	2.5		
<del> </del> 8		0		No recovery			
‡		0		No recovery			
12			·	Bottom of boring at 12.0'			
16							
20							
†							
24							
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.			

Project: X-430 Area Add. Invest. LEA Comm No: 68VC609 Client: Pratt & Whitney Location: East Hartford, CT LEA **Drilling Contractor:** 

**Drilling Method:** Geoprobe Sampling Method: Macro core/Large

Groundwater Observations: Depth: NM At:

Depth:

Hours Hours At:

art Date 0/3/96 End Date 10/3/96

Boring ID **NK-SB-80** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:

J. Sweeton

Northing: Easting:

Depth:	At: Hours			₹ Lasung:		
	Sample Information		tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ļ	1018693	100		Dark brown, fine SAND and SILT, little medium Sand, moist, loose, root fragments	0.0	
†	1018694	100		Brown, fine to medium SAND, trace Silt, moist, loose	0.0	
<b>-4</b>	1018695	100		As above, wet	0.9	
+	1018696	100		As above	0.6	
8	1018697	15		As above	0.0	
‡	1018698	15		Olive grey, varved CLAY, little Silt, wet, stiff (≈ 11.75')	0.0	
12			·	Bottom of boring at 12.0'	_	
16						
20						
24						
Comments	: Boreho	ole backfil	lled with be	entonite chips upon completion.		

rilling M	Method: ter Observa	LEA Seoprobe Macro co tions:	ore/Large	Surface Elevation:	
ерш: м epth:		At: At:	Hours Hours	Northing:	
evation/ epth	Sam Sample No.	Recovery	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes,  Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1018830	100		Light brown, fine SAND, trace medium Sand, moist, very loose	
†	1018831 1018832	100		As above	
+4	1018833	100	<u></u>	Brown, medium SAND, some coarse Sand, little fine Sand, wet ≈ 5.0', loose	
+		-	<del></del>	Bottom of boring at 6.0'	
‡ 1				·	
<del> </del>					
12					
+					
† +16					
†					
I I					
+20					
‡					
+ 24					

	<u> </u>	<del></del>		ruge 1 of 1	
Project: X	X-401 Are n No: 68	a 8VC614		Start Date 10/4/96 Boring II	
Client: Pr Location:	att & White East Hart	tney	_	End Date 10/4/96 NK-SB-8	2
Drilling Co Drilling Me Sampling Me Groundwat Depth: NI Depth:	ntractor: ethod: G Method: er Observa M	LEA Seoprobe Macro c	core/Large Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
<del></del> I	Sar	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1018849	100	-	Light brown, fine SAND, trace Silt, moist, loose	0.0
Ŧ	1018850	100		As above	0.0
14	1018851	100		Brown, fine SAND, some medium Sand, wet at ≈ 5.0', loose	0.0
‡				Bottom of boring at 6.0'	
8				·	
‡					
12				·	
+				·	
16					i 11
† † †					
20					
, † † †					
24					
Comments:	Boreho	le backfill	led with be	entonite chips upon completion.	₩•
					1

Project: X-401 Are	38		
LEA Comm No: 68	BVC614		
Client: Pratt & Whi	itney		
Location: East Har	tford, CT		11
<b>Drilling Contractor:</b>	LEA		77
Drilling Method:	Geoprobe		
Sampling Method:	Macro core	Large V	ore
Groundwater Observa	ations:		_
Depth: NM	At:	Hours	<del>丫</del>

Start Date 10/4/96 End Date 10/4/96

Boring ID **NK-SB-83** 

Logged By: L. B. Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth: N		At: At:	Hours Hours	Northing:				
	Sample Information		tion	Sample Description				
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)			
10	1018834	100		Brown, fine SAND, trace(-) Silt, moist, loose	0.0			
+	1018835	100		Light brown, fine SAND, moist, loose	0.0			
4	1018836	100		As above, very moist	0.0			
† † †				Bottom of boring at 6.0'				
8								
† †								
12								
+								
16								
+								
20								
‡								
24								
+	i .	, 1						

	IC BOR			Page 1 of 1	
LEA Comr	ratt & Whit	VC614 tney	n	Start Date 10/4/96 End Date 10/4/96 NK-SB-84	
rilling Co rilling Me ampling N Froundwat Depth: N	ntractor: ethod: G Method: ter Observa	LEA ieoprobe Macro c	ore/Large t	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:  V Northing:	
epth:		At:	Hours	9	
	Sample Information			Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
evation/ epth	Sample Mo.	Recovery (%)	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
-	1018837	100		Light brown, fine SAND, trace(-) medium Sand, moist, loose	
<b>T</b>	1018838	100		As above	
+4	1018839	100		Brown, medium SAND, with fine Sand, trace coarse Sand, wet, loose	
-				Bottom of boring at 6.0'	-
-8					
‡					
†					
+12					
Ī					
16					
+20					
-24					
‡					
omments	: Boreho	le backfill	led with be	entonite chips upon completion.	



				Page 1 of 1	_
Project: LEA Com	X-401 Area	VC614		Start Date Boring II	D
Client: P	ratt & Whit	ney		End Date	- 1
Location: Drilling Co Drilling Mc Sampling M Groundwar Depth: N Depth:	ethod: G Method: ter Observat M A	LEA eoprobe Macro d	•	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
Dopeni		ple Informa		Sample Description	<del>1</del>
Elevation/ Depth	Sample No.	Recovery (な)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
•	1018843	100		Light brown, fine SAND, trace Silt, moist, loose	0.0
†	1018844	100		As above	0.0
+4	1018845	100		Brown, fine to medium SAND, wet at ≈ 5.0', loose	0.0
‡				Bottom of boring at 6.0'	
<del>-</del> 8					
12					
 	:				
16					1 13
20					
†					
24					
ļ <u>†</u>			50 - 4		
Comments	: Boreho	ie dackfi	ilea with b	entonite chips upon completion.	

Project: X-401 Area LEA Comm No: 68VC614 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe

Sampling Method: Macro core/Large bore

Groundwater Observations: Depth: NM At:

Depth:

Hours Hours

Start Date 10/4/96 End Date 10/4/96

Boring ID

**NK-SB-86** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

Depth:		At: At:	Hours	Fasting:			
Elevation/ Depth	Sar	npie Informat	ion	Sample Description			
	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
•	1018846	100		Light brown, fine SAND, little Silt, moist, loose	0.0		
‡	1018847	100		Light brown, fine SAND, trace Silt, moist, loose	0.0		
+4	1018848	100		As above, wet at ≈ 5.0'			
‡				Bottom of Boring at 6.0'	0.0		
<del> </del> 8							
‡							
12							
<del> </del>							
16							
†							
† †							
+20							
† †				·			
24							
Commen	ts: Boreho	ole backfil	lled with be	entonite chips upon completion.			

Project: X-401 Area	
LEA Comm No: 68VC614	
Client: Pratt & Whitney	
Location: East Hartford, CT	
Drilling Contractor: LEA	

Geoprobe Macro core/Large bore

Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At:

Hours 🚆

Start Date 10/4/96 **End Date** 10/4/96

**Boring ID** 

**NK-SB-87** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:	At: Hours		Hours	Easting:		
	San	Sample Information Sample Description				
Elevation/ Depth	Sample No.			Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
Ţo	1018840	100		Brown, fine SAND, moist, loose, root fragments	0.0	
<u>†</u>				·		
+	1018841	100		Light brown, fine SAND, trace medium Sand, moist, loose	0.0	
Ŧ				agit brown, fine ozito, trace mediani cana, moist, 10056		
‡4	1010042	100			0.0	
† †	1018842	1.00		Light brown, fine to medium SAND, trace(-) Silt, wet $\approx$ 5.0', loose	0.0	
†		1 1		Bottom of boring at 6.0'		
+						
<b>∓</b> 8	· I					
1	i :					
‡						
<u> </u>	!					
+12						
<b>T</b> "						
Ŧ						
‡						
‡		1 1				
+16						
1						
Ŧ						
Ţ I						
‡ <sub>20</sub>						
‡						
†						
+						
Ŧ						
+24	i					
‡						
	1	1			I	

Project: X-401 Area **Start Date Boring ID** LEA Comm No: 68VC614 10/7/96 Client: Pratt & Whitney **End Date NK-SB-88** Location: East Hartford, CT 10/7/96 LEA **Drilling Contractor:** Logged By: L. Bianchi Drilling Method: Geoprobe J. Sweeton

Drilling Foreman: Drill Rig: Geopre Surface Elevation: Geoprobe 5400 Sampling Method: Macro core/Large b **Groundwater Observations:** 

Northing: Depth: NM Depth: At: Hours Easting:

Depth:	At: Hours		доша	₹ Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
·	1018854	100		Brown, fine SAND, with Silt, moist, loose	0.0	
I I	1018855 1018856	100		Strong brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, moist, loose	0.0	
<b>+4</b>	1018857	100		Greyish brown, fine to medium SAND, moist, loose, slight hydrocarbon odor	0.3	
† †	1018858	100		Greyish brown, medium to coarse SAND, some fine Sand, trace Silt, wet, loose, hydrocarbon odor	7.8	
+8				No recovery		
‡	1018859	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.3	
‡ <sub>12</sub>						
				Bottom of boring at 12.0'		
+16						
20						
‡						
24						
	s: Boreho	<u> </u>		entonite chips upon completion.	<u> </u>	

Project: X-401 Area LEA Comm No: 68VC614 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

**Groundwater Observations:** 

Depth: NM Depth:

At:

Hours Hours

Start Date 10/7/96 End Date 10/7/96

Boring ID NK-SB-89

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

. 10		
EΩ	sti	ng:

Depth:		At:	Hours	₹ Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1018860	100		Brown, fine SAND, some Silt, trace medium Sand, moist, loose	0.0	
†	1018861	100		Light brown, fine to medium SAND, trace Silt, moist, loose	0.0	
4	1018862	100		Greyish brown, fine to medium SAND, little coarse Sand, trace Silt, wet at ≈ 5.5', loose	0.9	
+	1018863	100		As above	1.0	
8	1018864	50		No recovery 8-9'; 12": Olive grey, varved CLAY, trace Silt, wet, stiff	0.2	
† †	1018865	100	<del></del>	As above	0.0	
12				Bottom of boring at 12.0'		
† +				·		
† †						
+16						
†						
+ 20						
+						
<u> </u>						
24						
+					<u> </u>	
Comments	: Boreho	le backfi	illed with be	entonite chips upon completion.		
	<del></del>					
L_E		<b>.</b>	LOUREIR	O ENGINEERING ASSOCIATES, PC		

Depth: NM

Project: X-401 Area LEA Comm No: 68VC614 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** Hours 🚆

Start Date Boring ID 10/8/96 **End Date** NK-SB-90 10/8/96

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:

Northing:

Sevation/ Depth	Sample No. 1018868	Recovery (x)	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Light brown, fine SAND and medium SAND, trace Silt, moist, loose	(ppm) 0.0
Depth	1018868	100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  Light brown, fine SAND and medium SAND, trace Silt,	
-4					0.0
+4	1018869	100			
+4				As above	0.1
‡	1018870 1018871	100		Light brown, medium SAND, with fine Sand, trace(+) Silt, trace(-) coarse Sand, wet at ≈ 5.5', loose	1.8
	1018872	100		Pinkish grey, medium to coarse SAND, some fine Sand, little fine Gravel, trace (-) Silt, wet, loose	0.6
8	1018873	50		10": As above; 2": Olive grey, varved CLAY, trace Silt, wet, very stiff	0.5
<u> </u>	1018874	100		As above	0.1
12	<del> <u> </u></del>			Bottom of boring at 12.0'	<del></del>
+					
16					
‡			ļ		
20				·	
†   †   ‡					
24					
				ntonite chips upon completion.	



EA Comn lient: Pr ocation: rilling Corilling Me ampling Me	ratt & White East Harte Intractor: Sthod: G	VC614 ney		Start Date 10/8/96 Boring ID	)
rilling Corilling Meampling  ntractor: ethod: G			End Date 10/8/96 NK-SB-9	1	
	ter Observat M A	eoprobe Macro C	Core Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
<u>-</u>	Sam	ple Informat	ion	Sample Description	
evation/ pth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
†°	1018875	100		Brown, fine SAND, little Silt, trace medium Sand, moist, loose	0.0
<u> </u>	1018876	100		As above	0.0
+4	1018877	100		Brown, fine to medium SAND, trace Silt, wet at ≈ 5.5', loose	0.1
‡	1018878	100		As above, wet	0.4
<del>-</del> 8	1018879	100		18": As above; 5": Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
‡	1018880	100		As above	0.0
+12 +				Bottom of boring at 12.0'	
+16					
20					
-24					
comments	: Roreho	le backfill	led with he	entonite chips upon completion.	

				Page 1 of 1	_
LEA Comi Client: P Location:	ratt & Whit East Hart	VC614 Iney		Start Date 10/8/96 Boring ID End Date 10/8/96 NK-SB-92	2
Drilling Co Drilling Mo Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observa M	LEA ieoprobe Macro C tions: At:	Core Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
llevation/ Septh	Sample No.	Recovery	Blows /6"	Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T°	1018881	100		Dark brown, fine SAND and SILT, moist, loose, root fragments	0.0
<u> </u>	1018882	100		Strong brown, fine SAND, little Silt, trace medium Sand, moist, loose	0.2
+4	1018883	100		Olive brown, fine SAND, with Silt, wet at ≈ 5.5-6.0', loose	1.4
‡ ‡	1018884	100		Grey, medium SAND, with fine Sand, little coarse Sand, trace Silt, wet, loose	20.0
-8	1018885	100		Olive brown, medium to coarse SAND, some fine Sand, trace Silt, wet, loose	0.5
‡	1018886	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
12				Bottom of boring at 12.0'	
16					
20					
‡					

LEA

Borehole backfilled with bentonite chips upon completion.

Project: X-401 Area Start Date **Boring ID** LEA Comm No: 68VC614 10/9/96 Client: Pratt & Whitney **End Date NK-SB-93** Location: East Hartford, CT 10/9/96 Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe J. Sweeton Macro Core Groundwater Observations: 후 Depth: NM At: Hours Northing: Hours Depth: At: Easting: Sample Information Sample Description

	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (2)	Blows 76"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
T°	1018889	100		Dark brown, fine SAND and SILT, trace medium Sand, moist, loose	0.0	
‡	1018890	100		4": As above; 19": Light brown, fine to medium SAND, some Silt, trace(-) coarse Sand, moist, loose	0.0	
+4	1018891 1018892	100		As above; Note: trace Dark brown, silty material, wet, soft, cleaner odor	1.4	
‡	1018893	100		Grey, medium SAND, some fine Sand, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose, hydrocarbon odor	80.0	
+8	1019176	50	-	Olive brown, medium SAND, some fine Sand, trace(+) coarse Sand, trace(-) Silt, wet, loose	1.2	
†	1019177	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.8	
+12 + + +				Bottom of boring at 12.0'		
+ + 16 + + +						
24						
Comments	: Boreho	le backfi	lled with b	entonite chips upon completion.		

Borehole backfilled with bentonite chips Free product encountered in H2O sample from NK-SB-93.

X-401 Area Project: LEA Comm No: 68VC614 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core

**Groundwater Observations:** 

Depth: NM

At:

Hours

Start Date 10/9/96 **End Date** 10/9/96

James Alle Conde

**Boring ID** 

**NK-SB-94** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

	At: Hours		AOuts	₹ Easting:		
	San	nple Inform	ntion	Sample Description		
Elevation/ Depth	Sample Recovery Blows Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness					
0	1019178	100		Dark brown, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	24.0	
<b>†</b>	1019179	100		5": As above; 18": Light brown, fine SAND, little medium Sand, trace Silt, moist, loose	38.0	
4	1019180	100		6": As above; 17": Grey, fine to medium SAND, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, moist, loose	280.0	
<u> </u>	1019181	100		As above, wet	1000+	
<b>-</b> 8	1019182	100		6": As above; 17": Olive grey, varved CLAY, trace Silt, wet, stiff	34.0	
<b>†</b>	1019183	100		As above	6.4	
12				Bottom of boring at 12.0'		
+ + 16 +						
-20						
24						
Comment	<u></u>	1	illad solah ha	entonite chips upon completion.	L	

		<b>1</b>	Page 1 of 1
Project: X-401 Area LEA Comm No: 68VC614		Start Date 10/9/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	1),	End Date 10/9/96	NK-SB-95
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core		Drilling Forema	Bianchi n: J. Sweeton pprobe 5400

Sampling Mo Groundwater	ethod: r Obcarva	Macro (	Core	Drill Rig: Geoprobe 5400 Surface Elevation:	
Depth: NM		At:	Hours	Northing:	
Depth:		At:	Hours	Easting:	
	Sar	mple Informs	ntion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1019184	100		Dark brown/black, fine SAND and SILT, trace(-) medium Sand, moist, loose, root fragments	0.0
#	1019185	100		6": As above; 17": Light brown, fine SAND, some Silt, trace medium Sand, moist, loose	0.1
<b>-</b>	1019186	100		As above	9.0
<b> </b>	1019187	100		Dark grey, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	150.0
	1019188	100		4": As above; 19": Olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	12.0
#	1019189	100	<u> </u>	15": As above; 8": Olive grey, varved CLAY, trace Silt, wet, stiff	1.2
12	-			Bottom of boring at 12.0'	
16					
†					
20					
24					
Comments:	Boreho	ole backfi	illed with be	entonite chips upon completion.	



			rage I of I
Project: X-401 Area LEA Comm No: 68VC614		Start Date 10/10/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	<i>())</i> .	End Date 10/10/96	NK-SB-96
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core		Drillin <b>g Foreman:</b> Drill Rig: Geop	robe 5400
Groundwater Observations: Depth: NM At:	Hours 🚆	Surface Elevation Northing:	•

Depth: Depth:	NM		At: At:	Hours Hours	₩ Northing: ₩ Easting:	
		San	aple Informat	ion	Sample Description	T
Elevation/ Depth		Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10		1019192	100		Dark brown, fine SAND, some Silt, moist, loose, root fragments	0.0
‡		1019193	100		4": As above; 19"; Light brown, fine SAND, little Silt, trace(-) medium Sand, moist, loose	10.0
+4		1019194	100		As above; dark brown soft clumps, strong sweet odor (organic lense at 4.5')	15.0
+		1019195 1019196	100		Grey, fine to medium SAND, some coarse Sand, trace Silt, wet, loose, approximately 5-7 inches of (shiny) product beginning at 7.0', strong hydrocarbon odor	1000+
+8			·		Bottom of boring at 8.0'	
† +12	2					
+						
+10	3					
+20	•					
+2 <sup>4</sup>	•					
Comme	nts:	Boreho	le backfil	led with be	entonite chips upon completion.	



Depth:		At:	Hours	Easting:	
	Sar	mple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1019197	100		Dark brown/black, fine SAND and SILT, moist, slightly stiff, root fragments	7.0
‡	1019198	100	-	8": As above; 15": Light brown, fine SAND, trace Silt, moist, loose	25.0
+4	1019199	100	·	15": As above, (organic lense at 4.5'), sweet odor; 8": Grey, fine to medium SAND, some coarse Sand, trace Silt, wet, loose, hydrocarbon odor	20.0
† †	1019200	100		2": As above, hydrocarbon odor; 8": Grey, coarse SAND and fine GRAVEL, little fine to medium Sand, wet, very loose, strong hydrocarbon odor; 13": Grey, fine SAND, trace Silt, wet, loose, strong hydrocarbon odor	50.0
Ŧ°				Bottom of boring at 8.0'	,
1					
1					
12					
Ŧ"					
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+16					
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‡					
‡					
+20					
‡					
‡					
‡					:
+24					
ł					
Comment	<u></u>		90	entanite chine unan completion	<u> </u>

**Comments:** 

Borehole backfilled with bentonite chips upon completion.



Project: X-401 Area Start Date **Boring ID** LEA Comm No: 68VC614 10/10/96 Client: Pratt & Whitney **End Date NK-SB-98** Location: East Hartford, CT 10/10/96 Logged By: L. Bi Drilling Foreman: Drill Rig: Geopre Surface Elevation: Northing: **Drilling Contractor: LEA** L. Bianchi Drilling Method: Geopro Sampling Method: Macro Groundwater Observations: J. Sweeton Geoprobe Macro Core Geoprobe 5400 Hours Hours Depth: NM At: Easting: Depth: At:

Depth:	4	Al:	Homs	÷ Easting:	
	Sar	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1.0	1019201	100		Dark brown/black, fine SAND and SILT, moist, slightly stiff, root fragments	5.0
<u> </u>	1019202	100	-	8": As above; 15": Light brown, fine SAND, trace Silt, moist, loose	35.0
+4	1019203	100	_	14": As above; 9": Grey, fine to medium SAND, some coarse Sand, trace Silt, wet, loose, hydrocarbon odor	45.0
-8	1019204	100		5": As above, hydrocarbon odor; 8": Grey, coarse SAND and fine GRAVEL, little fine to medium Sand, wet, loose (shiny) free product; 10": Grey, fine SAND, little medium Sand, trace Silt, wet, loose, hydrocarbon odor	1000+
†				Bottom of boring at 8.0'	
12					
16					
20					
-24					
Comments	: Boreho	ole backfil	lled with he	entonite chips upon completion.	



At:

Depth: NM

**Start Date** 10/10/96 **End Date** 10/10/96

**Boring ID** 

**NK-SB-99** 

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	Sar	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019205	100		Dark brown/black, fine SAND and SILT, moist, slightly stiff, root fragments	0.0
†	1019206	100		8": As above; 15": Light brown, fine SAND, trace Silt, moist, loose	5.0
<b>+4</b>	1019207	100		15": As above; 8": Grey, fine to medium SAND, some coarse Sand, trace Silt, wet, loose, hydrocarbon odor	10.0
-8	1019288	100		6": As above, hydrocarbon odor; 8": Grey, coarse SAND and fine GRAVEL, little fine to medium Sand, wet, loose, (shiny) free product; 9": Grey, fine SAND, little medium Sand, trace Silt, wet, loose, hydrocarbon odor	30.0
			:	Bottom of boring at 8.0'	
† †			·		
12					
16					
†					
±20					
+ 24				·	
<del>                                   </del>					
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.	

				rage I of I
Project: X-401 Area LEA Comm No: 68V0	614	ar	Start Date 10/14/96	Boring ID
Client: Pratt & Whitne Location: East Hartfor		11	End Date 10/14/96	NK-SB-200
Drilling Method: Geo	LEA probe acro Core as: Hours Hours	₩ ₩	Logged By: L. Drilling Foreman Drill Rig: Geo Surface Elevation Northing: Easting:	probe 5400
Camala	Information		Comple Description	<u> </u>

Depth:	4	At:	Hours	₩ Easting:	
	San	nple Informa	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019372	100		Dark brown, fine SAND, some Silt, moist, slightly stiff, root fragments	0.0
† †	1019373	100		Brown, fine SAND, with medium Sand, some coarse Sand, moist, loose	0.1
+4	1019374 1019375	100		As above, wet at ≈ 5.5'	0.6
†	1019376	100		As above	0.2
<del>-</del> 8	1019377	25		Olive grey, varved CLAY, little Silt, wet, slightly stiff	0.1
‡	1019378	100		As above	0.0
12				Bottom of boring at 12.0'	
16					
20					
24					
Comments	s: Boreho	ole backf	illed with be	entonite chips upon completion.	1_



Explosives Storage Area Add. Invest. Start Date Project: Boring ID LEA Comm No: 10/14/96 68VC616 Client: Pratt & Whitney **End Date** NK-SB-201 East Hartford, CT Location: 10/14/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: **Drilling Method:** Geoprobe J. Sweeton Sampling Method:

Depth:		At:	Hours		
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (え)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019268	100		8": Dark brown, fine SAND and SILT, moist, slightly stiff, root fragments; 16": Strong brown, fine to medium SAND, moist, loose	0.0
† † †	1019269	100		As above	0.0
+4	1019270	100		As above, very moist	0.2
<del> </del>	·			Bottom of boring at 6.0'	
+8					
12					
16					
20					
-24					
Comments		1. 5 1.6	11 - J	entonite chips upon completion.	<u> </u>

Borehole backfilled with bentonite chips upon completion.



Explosives Storage Area Add. Inves m No: 68VC616 **Start Date Boring ID** LEA Comm No: 10/14/96 Client: Pratt & Whitney **End Date** NK-SB-202 Location: East Hartford, CT 10/14/96

Logged By: L. Bianchi Drilling Foreman: J. **Drilling Contractor:** LEA Drilling Method:

Geoprobe J. Sweeton Sampling Method: Maca Groundwater Observations: Macro core/Large bore Drill Rig: Geoprobe 5400

Surface Elevation: Depth: NM Depth: Northing: Easting: Hours Hours

Depth:					
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1019271	100		8": Dark brown, fine SAND and SILT, moist, slightly stiff, root fragments	0.0
†	1019272	100		As above	0.7
+4	1019273	100		As above, very moist	0.3
Ī				Bottom of boring at 6.0'	-
-8					
† †					
+ + 12 +					
Ī					
+16 +					
÷ 20					
1					
-24					
†					
Comments	: Boreho	le backfil	lled with be	entonite chips upon completion.	<u> </u>



Project: Explosives Storage Area Add. Invest, LEA Comm No: 68VC616 **Start Date Boring ID** 10/15/96 Client: Pratt & Whitney **End Date** NK-SB-203 Location: East Hartford, CT 10/15/96 Logged By: L. B. Drilling Foreman: **Drilling Contractor:** LEA L. Bianchi Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: Drilling Method: Geoprol Sampling Method: Macro Groundwater Observations: Geoprobe Macro core/Large bo

Hours ₹ Depth: NM At: Northing:

Sedimentary Structures, Density, Cohesiveness  6": Dark brown, fine SAND, little Silt, trace medium Sand, moist, slightly stiff, root fragments; 18": Strong brown, fine to medium SAND, moist, loose  1019277 100 As above	Depth: N	41VI Z	at: At:	Hours	Easting:	
Sample   Recovery   Biger   Section   Section   Section   Softmer, Softmericity, Angularity, Sedimentary Structures, Density, Cohesiveness   Section   Sec		San	ple Informat	ion	Sample Description	_
moist, slightly stiff, root fragments; 18": Strong brown, fine to medium SAND, moist, loose  1019277 100 As above 44  1019278 100 As above, very moist 0  Bottom of boring at 6.0'	Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm)
4 1019278 100 As above, very moist 0  Bottom of boring at 6.0'  12  16	+	1019276	. 100		moist, slightly stiff, root fragments; 18": Strong brown,	0.0
Bottom of boring at 6.0'	Ŧ	1019277	100		As above	48.0
12 16 -20	<b>-</b>	1019278	100		As above, very moist	0.2
-12 -16 -20	‡ †				Bottom of boring at 6.0'	-
-16	-8					
	†					
	†					
	+12					
	Ī					
	16					
	†					
	‡					
24	120					
+24	Ī					
‡	+24			:		
1 1 1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	‡					<u> </u>

Explosives Storage Area Add. Invest Start Date Project: **Boring ID** 68VC616 10/15/96 LEA Comm No: Client: Pratt & Whitney **End Date** NK-SB-204 Location: East Hartford, CT 10/15/96 Logged By: **Drilling Contractor:** LEA L. Bianchi Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Sampling Method: Macro core/Large bore Geoprobe 5400 Groundwater Observations: Surface Elevation: Hours Northing: Depth: NM At: At: Hours Depth: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1019279 100 0.1 4": Processed stone; 4": Dark brown, fine SAND, little Silt, trace medium Sand, moist, slightly stiff, root fragments; 16": Strong brown, fine to medium SAND, moist, loose 1019280 1019281 100 0.3 As above 1019282 100 2.0 As above, very moist Bottom of boring at 6.0' 12 Printed On: 1/23/1998 16 Borehole backfilled with bentonite chips upon completion. Comments:

X-194 Add. inv. Former AST Project: Start Date **Boring ID LEA Comm No:** 68V7062 05/20/97 Client: Pratt & Whitney **End Date** NK-SB-297 East Hartford, CT Location: 05/20/97 **Drilling Contractor:** LEA I. Rozovsky Logged By: **Drilling Method:** Geoprobe **Drilling Foreman:** D. Brisson Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: Hours Northing: Hours Depth: Easting: Sample Information Sample Description Rievation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. covery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1634096 70 Black, fine SAND, some organic black and brown pieces, 1.5 medium to coarse, moist to dry, dense 1634097 70 1.5 Very fine SAND, yellowish-brown, some Silt, moist to wet. loose Bottom of Boring 4' 12 16 20 Boring No: NK-SB-297 Comments: Boring backfilled with bentonite

Project: X-194 Add. Inv. Former AST LEA Comm No: 68V7062 Start Date **Boring ID** 05/20/97 End Date Client: Pratt & Whitney NK-SB-298 Location: East Hartford, CT 05/20/97 Logged By: I. Rozovsky
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** Drilling Method: Geopre Sampling Method: Macroundwater Observations: Geoprobe Macro Core Hours ₹ Depth: Northing:

Elevation/ Depth	Sample No.	nple Informa	tion	Sample Description	1
Depth	Sample No.		l l		
- 10		Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
†	1634098 1634099	65 65		Black, fine SAND, very fine Sand, brownish with organic black particles, little brownish Silt, very fine Sand, Silty, moist to wet	1.0
+4				Bottom of Boring 4'	
Ĭ					
8					
+ +12					
† †					
16					
20					
-24					
Comments:			d with bent		



Project: X-410 Add. Inv. Frmr Oil Rack LEA Comm No: 68V7063

LEA Comm No: 68V7063
Client: Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Maci Groundwater Observations: Depth: NR At: Macro Core

Hours

Sart Date 05/21/97 End Date 05/21/97

Boring ID

NK-SB-299

NK-SB-2

Ordilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

Depth:	4	At:	Hours	Easting:	
	Sar	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Prim. Grain Size, Sec. Grain Sizes, Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive	PID/FID
10	1634058	75		Top 3-4": Bituminous concrete; Medium to fine SAND, yellowish brown, moist, dense	0
†	1634059 1634060			Fine SAND, moist, dense to very dense (around 4'), reddish brown, lenses of organics, medium Sand	0
+4	1634061	75		Fine SAND, very moist to wet, lenses of medium Sand ???, drk brown, with some reddish dense	0
<b>†</b>	1634062			Fine to very fine SAND, some Silt, moist, very dense, brown from reddish (6') to yellowish (8')	0
+8	1639063	100		Fine SAND, brown yellowish, wet, dense, some Silt, a little particles of ??? crystal, some grey, Clay around 9.8'	0
‡				Bottom of Boring at 10', Moist Grey, CLAY	
12					
+					
+16 + + + +	un.				
20					
-24					
‡					

Project: X-410 Add. Inv. Frmr Oil Rack Start Date Boring ID **LEA Comm No:** 68V7063 05/21/97 Client: Pratt & Whitney East Hartford-JBK **End Date** NK-SB-300 Location: P&W East Hartford 05/21/97

I. Rozovsky **Drilling Contractor:** Logged By: Drilling Foreman: D. Brisson **Drilling Method:** Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Depth: NR Hours Northing:

Hours Depth: Easting: At: Sample Description Sample Information PIO/FID (ppm) Elevation/ Depth Color, Prim. Grain Size, Sec. Grain Sizes, Blows Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive 75 1634064 Fine to very fine SAND, yellowish brown, dry to moist, dense, some organic particles 1634065 0 Fine, mostly very fine SAND, reddish brown, moist, very dense, small lenses of medium ??? 1634066 75 Ō Fine SAND, some medium Sand, wet, dense, brown greyish, some black, organic particles 1634067 ٥ Fine SAND, some medium Sand, some iron staining on ??? moist, dense, some coarse Sand, silty lenses around 8' 1634068 75 Dark brown, fine SAND, extensive Silt involvement, moist, 0 very dense; hit the Clay later at 10' (in tip) Bottom of Boring at 10' Grey CLAY 12 16 20 Boring

Comments:

Boring backfilled with bentonite



z

Project: X-410 Add. Inv. Frmr Oil Rack

LEA Comm No: 68V7063 Client: Pratt & Whitney East Hartford-JBK

**Location:** P&W East Hartford **Drilling Contractor:** Geoprobe

Drilling Method: Geopre Sampling Method: Maci Groundwater Observations: Macro Core

Depth: NR

At:

Hours Hours

tart Date 05/21/97 **End Date** 05/21/97

**Boring ID** 

NK-SB-301

Logged By: I. Rozovsky
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation:

Northing: Easting:

Depth:	1	\t:	Hours	₹ Easting:	
	San	aple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Prim. Grain Size, Sec. Grain Sizes, Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive	PID/FID (ppm)
0	1634069 1639070	88		Fine to very fine SAND, dry to moist, loose to dense, yellowish brown, greyish to black, Silt in 1.8'-2.8' interval, very fine SAND, reddish brown, some medium Sand, moist, dense	0
+4	1634071	88		Fine SANd, some Silt around 9', wt, reddish brown, Sand, dense	0
† † †	1634072			?? lenses on the fine SAND, mostly fine, to very fine (≈8') Sand, Some Silt, moist, very dense	0
+8	1634073	100		Fine SAND with 30% medium Sand ??? brown, moist, dense, hit the Clay layer ≈ at 7.2'	0
ŧ				Bottom of Boring at 10' Grey Clay	
12					
16					
20	-4				
-24					
Comments	: Boring	backfille	d with bent	conite	

Comments:

Boring backfilled with bentonite



X-410 Add. Inv. Frmr Oil Rack Statt Date Project: **Boring ID** 05/22/97 LEA Comm No: 68V7063 Client: Pratt & Whitney East Hartford-JBK **End Date** NK-SB-302 05/22/97 Location: P&W East Hartford I. Rozovsky LEA Logged By: **Drilling Contractor:** Drilling Foreman: D. Brisson **Drilling Method:** Geoprobe Macro Core Drill Rig: Geoprobe 5400 Sampling Method: Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: NR Easting: At: Hours Depth: Sample Information Sample Description PID/FID (ppm) Color, Prim. Grain Size, Sec. Grain Sizes, Elevation/ Depth Blows cover Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive 1634076 75 0 Top layer, dark grey, very fine SAND, some Silt, very dense, dry, sme organic particles on the top, Grey, fine Sand, moist, dense 1634077 1634078 Brown reddish, fine SAND, some medium Sand ???, moist, 0 75 1.0 1634079 Fine SAND, yellowish brown, wet to moist, dense, some medium Sand 1634080 .75 Fine to medium SAND, yellowish brown, moist, dense, some coarse Sand particles, iron stain lenses (orange to drk 1624081 100 1.0 Fine SAND, reddish brown, wet, dense, some Silt, some iron stain lenses, hit Clay ≈9.5° Bottom of Boring at 10' Grey Clay 12 Printed On: 11/14/1997 16 20 Boring Comments: Boring backfilled with bentonite

Z

GEOLOGIC BORING LOG Page 1 of 1 Project: X-410 Add. Inv. Frmr Oil Rack Start Date **Boring ID** LEA Comm No: 68V7063 05/22/97 Client: Pratt & Whitney East Hartford **End Date** NK-SB-303 Location: P&W East Hartford 05/22/97 I. Rozovsky **Drilling Contractor:** Logged By: D. Brisson **Drilling Method:** Geoprobe Drilling Foreman: Sampling Method: Macro Core Drill Rig: Geopr Surface Elevation: Geoprobe 5400 **Groundwater Observations:** Depth: NR Northing: Hours At: Hours Easting: Depth: At: Sample Description Sample Information PID/FID (PPM) Elevation/ Depth Color, Prim. Grain Size, Sec. Grain Sizes, Blows Sample No. Moist, Sort, Spher, Angul, Sed Struct, Density, Cohesive 1634082 75 Dark grey to black, very fine SAND, some Silt, dry to moist, 0.5 very dense, some organic lenses 1634083 1.0 Reddish brown, fine SAND, some medium Sand lenses, moist, dense 1634084 75 1.0 Reddish brown, fine SAND with some medium Sand lenses. wet, dense, some organic particles 1634085 Brown, fine to medium SAND, iron stain lenses, some 1.3 coarse Sand, moist to wet, dense 100

1634086 2.0 Light brown, very fine SAND with some Silt, wet, dense, hit the Clay ≈9 Bottom of Boring at 10' DLAY 12 16 20

Comments:

Boring backfilled with bentonite

Printed On: 11/14/1997

Start Date Project: X-194 Add. Inv. Former AST Boring ID LEA Comm No: 68V7062 05/22/97 Client: Pratt & Whitney **End Date** NK-SB-304 Location: East Hartford, CT 05/22/97 Logged By: I. Rozovsky Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 **Drilling Contractor:** D. Brisson Drilling Method: Geoprobe Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: At: At: Hours Easting: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 75 1634109 Yellowish-brown, very fine SAND, moist, dense, some iron-staining lenses 1634110 75 Reddish-brown, fine SAND, some medium Sand, wet, dense, some iron-staining spots Bottom of Boring 4' 12 16 20 Boring backfilled with bentonite



**Groundwater Observations:** 

Surface Elevation:

Project: X-430 Former Steel Tank **Start Date Boring ID** LEA Comm No: 68V7065 05-27-97 Client: Pratt & Whitney **End Date** NK-SB-305 East Hartford, CT Location: 05-27-97 Logged By: I. Rozovsky **Drilling Contractor:** LEA Drilling Method: D. Brisson Geoprobe Drilling Foreman: Sampling Method: MC Drill Rig: Geoprobe 5400

Depth: NR Hours Northing: Easting: At: Hours Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1634170 75 0 Very fine SAND, Silty, Dark brown (top) to light brown (~2'), dry to moist, dense 1634171 0 Yellowish brown, fine SAND, moist, very dense, some Silt 1634173 1634172 67 0 Dark brown, fine SAND, some medium Sand, wet, dense, some iron-stained lenses, black organic lenses; fine to very fine SAND, yellowish-brown ≈ at 7.5', sone Silt (brown) layer, wet, dense, some medium Sand 0 1634174 Fine to very fine SAND, Yellowish brown ≈ at 7.5', some Silt (brown) layer, wet, dense, some medium Sand 75 1634175 8" - 8.7': medium SAND with some coarse Sand, wet, medium dense, 8,7-10- Silty Sand, some black oily sheen on Sand, wet, dense, no smell, ≈ As Above, 10.5', list the grey Clay layer, moist 1634176 **Bottom of Boring 12'** 16 20 Boring backfilled with bentonite Comments:

Printed On: 2/6/1998

						1 age 1 Of 1		
	X-430 Form		Tank		Start Date	Boring II	)	
LEA Comr Client: Po	m No: 68' ratt & Whit	V7065 nev			05-27-97 End Date			
Location:					05-27-97	NK-SB-30	<b>)6</b>	
Drilling Co Drilling Me Sampling N Groundwat Depth: N Depth:	ethod: G Method: ter Observat R A	LEA eoprobe MC tions: At:	Hours Hours	<u>무</u>	Logged By: 1. R Drilling Foreman: Drill Rig: Geop Surface Elevation: Northing: Easting:	robe 5400		
2 op 12.		ple Informati		•	Sample Description			
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Moist	mary Grain Size, Secondary Gr ture, Sorting, Sphericity, Angul atary Structures, Density, Cohe	arity,	(ppm)	
10	1634177 1634178	67			ne SAND, moist, dense, some sh-brown, fine SAND, some n		0	
+4	1634179	75		Dark brown, sil	ty SAND, wet, dense, some ish-brown, silty SAND, some	ron-stained	0	
	1634180			some medium	Sand lenses, black, iron-staine	ed spots, wet	0	
<b>†8</b>	1634181	75		wet; medium d	ne to medium SAND, coarse S ense, some black, iron-stained Ity Sand, grey Clay at 10.5',	l lenses, silty	0	
<b>†</b>	1634182			<b>Cuilc</b> 12 <b>,</b> 0.	icy cana, gio, cia, at ioio,		0	
12				Bottom of Bori	ng			
Ī								
16								
+20								
†								
24			·					
Comments	Boring	hackfilled	I with bent	onite				
	. Donning			<b>.</b>				

Project: X-430 Former Steel Tank LEA Comm No: 68V7065

Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LE.
Drilling Method: Geopre
Sampling Method: MC
Groundwater Observations: Geoprobe

Depth: NR

Hours ₹ At:

**Start Date** 05-28-97 End Date 05-28-97

Boring ID

NK-SB-307

Logged By: I. Rozovsky
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: I. Rozovsky man: D. Brisson

Northing:

Depth:		At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6" .	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1634185 1634186	100		Top 8": Topsoil (black, some organic involvements), some medium Sand, fine SAND, moist, dense; Brown fine SAND, some medium Sand, iron-stained lenses, wet, dense	0
+4	1634187 1634188 1634189	58	-	Reddish brown, fine SAND, some medium Sand, wet, dense, some medium Sand, some black organic lenses, Yellowish-brown, fine to medium SAND, wet, medium density, 4" layer of light brown Silt at 7.5'	0
8	1634190	88		Dark brown-reddish, fine to medium SAND, some coarse Sand, wet, dense, some black, iron-stained lenses, grey Clay layer 11'	0
+ + + + 12	1634191			Bottom of Boring 12'	0
+++++++++++++++++++++++++++++++++++++++				Bottom of Boring 12	
16					
+ 20 +					
-24					
‡					]

Project: X-430 Former Steel Tank LEA Comm No: 68V7065 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: LE
Drilling Method: Geopre
Sampling Method: MC
Groundwater Observations: LEA Geoprobe Depth: NR

**Start Date** 05-28-97 End Date 05-28-97

Boring ID

NK-SB-308

Logged By: I. Rozovsky
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:		At:	Hours	₹ Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1634193	88		Top 6": Topsoil, yellowish-brown, fine SAND, moist, dense, some black organic lenses; Yellow, dark brown to light brown, fine SAND, some medium Sand, moist, dense	0
4	1634194 1634195	75		Reddish-Brown, fine SAND, some medium Sand, wet, dense, black iron-stained lenses, Yellowish to light brown, fine SAND, some medium Gravel, wet, dense, black, iron-stained lenses	0
+8	1634196	67		Reddish-brown, fine SAND to medium Gravel, wet, dense, black, ironstained lenses; grey Clay layer 11.8'	
‡	1634197			·	
+12				Bottom of Boring 12'	
16	_		·		
-20					
24					
<u> </u>					
Comments	: Boring	backfille	ed with bent	tonite	

<b>Project:</b> X-430 Fo	ormer Steel T	ank
LEA Comm No: 6	38V7065	
Client: Pratt & WI	hitney	
Location: East Ha	rtford, CT	
<b>Drilling Contractor:</b>	LEA	_
Drilling Method:	Geoprobe	
Sampling Method:	MC	4
Groundwater Observ	vations:	•
Depth: NR	At:	Hours
Donthe	A +.	House

Start Date 05-28-97 **End Date** 05-28-97

Boring ID NK-SB-309

Logged By: I. Rozovsky
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	1
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1634198 1634199	88		4": Topsoil, Yellowish-brown, fine SAND with some black organic lenses, moist, dense; Yellowish-brown, fine SAND, some medium Sand, wet, dense, some iron-stained lenses	
<b>+4</b>	1634200 1634201	83		Top 20": Greenish-grey, fine SAND, trace(+) medium Sand, wet, loose; Next 16": Orange-brown to brown, fine SAND, trace(-) medium Sand, wet, loose; Next 1": Red-brown, very fine SAND, little Silt, wet, dense; Bottom 3": Greenish-grey, fine to medium SAND, trace(-) coarse Sand, wet, loose	
+8	1634202	75		Dark brown, fine SAND, some medium Sand, wet, dense, iron-stained lenses; grey Clay layer at 11"	
†	1634203				
+12	•			Bottom of Boring 12'	
16	1				
20					
24					
Comments	, Parina	backfiller	d with bent	tonite	<u> </u>

Comments:

Boring backfilled with bentonite



Add. Investigation NK Soil Piles Project: **Start Date** Boring ID LEA Comm No: 68V7075 06/05/97 Client: Pratt & Whitney **End Date** NK-SB-310 Location: East Hartford, CT 06/05/97 Logged By: B. T Drilling Foreman: **B.** Tomicic **Drilling Contractor:** D. Brisson **Direct Push** Drilling Method: Drill Rig: Sampling Method: Macro Core Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: N/R At: Hours At: Easting: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1634657 88 1.4 Top 6": Organic debris; Middle 10": Light brown, fine SAND, dry, loose, trace(-) medium Sand; Bottom 8": Yellowish brown, fine SAND, trace coal and cinders, dry, 1634658 1634659 0.2 Yellowish brown, fine SAND, trace coal and cinders, moist, loose 1634660 0.2 Top 6": Dark brown, fine SAND, trace medium Sand, wet, loose, coal and cinders; Bottom 6": Greyish brown, fine to medium SAND, wet, loose 2.0 1634661 Greyish brown, medium to fine SAND, wet, loose 1634662 2.0 As Above, CLAY in tip 2.2 1634663 Bottom of Boring at 12' 12 Bottom of Boring at 12' Printed On: 2/2/1998 16 20 24 Boring Borehole backfilled with bentonite chips upon completion Comments:

Add. Investigation NK Soil Piles mm No: 68V7075 LEA Comm No:

Hours

Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method: Direct Push** Sampling Method: Macro Core

Groundwater Observations:

Depth: N/R At: **Start Date** 06/05/97 **End Date** 06/05/97

**Boring ID** 

NK-SB-311

B. Tomicic

Logged By: B. T Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Depth:	A	lt:	Hours	₹ Easting:	
	Sarr	ple Informa	ition	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
lo	1634664	88		Top 3": Organic debris; Bottom 18": Yellowish brown to fdark yellowish brown, fine SAND, trace fine and coarse Gravel (process stone), dry, loose; 2" layer of light brown, fine to medium SAND at 1.2'	0.2
† †	1634665			Dark yellowish brown, fine SAND, trace fine and coarse Gravel (process stone), moist, loose, petroleum odor	6.0
+4	1634666	62		Dark yellowish brown, fine SAND, moist, loose, petroleum odor	7.2
†	1634667			Dark brown, fine SAND, trace(-) fine Gravel, wet, loose; strong petroleum odor	60.
	1634668	79		Top 6": Dark brown, fine SAND, trace(+) Silt, wet, loose; Bottom 1': Greyish brown, fine to medium SAND, wet, loose	80.
†	1634669			Top 1.2': Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose	0.0
12				Bottom of Boring-at 12'	
16					
Ī 1					
20					
† † †					
24					Ĺ
Comments		In he state	المحادة المحادة	entonite chips upon completion.	

Comments:

Borehole backfilled with bentonite chips upon completion.

Add. Investigation NK Soil Piles m No: 68V7075 Project:

LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Sampling Method: **Direct Push** Macro Core

Groundwater Observations: Depth: N/R At:

Depth:

Hours At: Hours **Start Date** 06/05/97 **End Date** 06/05/97

Boring ID

NK-SB-312

Logged By: B. Tomicic
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Northing: Easting:

Sedimentary Structures, Density, Cohesiveness  Top 8": Dark brown, fine SAND, some Silt, trace organic matter, dry, loose; Bottom 1.2': Light brown, fine SAND, dry, loose  Dark yellowish brown, fine SAND, trace(-) fine Gravel, moist, loose  Dark yellowish brown, fine SAND, moist, loose  Dark yellowish brown, fine SAND, little medium Sand, wet, loose  Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor	Debrii:		<b>11.</b>	Hvurs	÷ Lasting.	
Segue   Segue   Recovery   Recovery   Noisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cobesiveness   Sedimentary Structures, Density, Cobesiveness		San	aple Informat	ion	Sample Description	
metter, dry, loose; Bottom 1.2': Light brown, fine SAND, dry, loose    1634671		Sample No.	Recovery (%)	Blows /6°	Moisture, Sorting, Sphericity, Angularity,	(ppm)
moist, loose  Dark yellowish brown, fine SAND, moist, loose  Dark yellowish brown, fine SAND, little medium Sand, wet, loose  Bark brown, fine SAND, trace Silt, wet, loose, petroleum odor  Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6*: Grey, varved CLAY, wet, loose  Bottom of Boring at 12'	°	1634670	88		matter, dry, loose; Bottom 1.2': Light brown, fine SAND,	0.4
Dark yellowish brown, fine SAND, little medium Sand, wet, loose  1634674 67 Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor  1634675 Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose  Bottom of Boring at 12'	‡	1634671		,		0.2
Bottom of Boring at 12'    1634674   67   Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor   1634675   Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose   Bottom of Boring at 12'   Boring at 12'   Boring at 12'   Boring at 12'   Boring at 12'   Boring at 12'   B	+4	1634672	46		Dark yellowish brown, fine SAND, moist, loose	0.4
Dark brown, fine SAND, trace Silt, wet, loose, petroleum odor  1634676  Greyish brown, fine to medium SAND, grading to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose  Bottom of Boring at 12'	<del> </del>	1634673				10.0
brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 6": Grey, varved CLAY, wet, loose  Bottom of Boring at 12'	-8	1634674	67			22.0
Bottom of Boring at 12'	†	1634675			brown, medium to fine SAND, trace coarse Sand, wet,	7.2
20	<b>†</b> 12				Bottom of Boring at 12'	
20	†					
	16					
	†					
	20					
24	Ī					
	+24					
<u> </u>	‡				• ,	



Project: Add. Investigation NK Soil Piles **LEA Comm No: 68V7075** Client: Pratt & Whitney Location: East Hartford, CT LEA

**Drilling Contractor:** Drilling Method: Direct Sampling Method: Maci Groundwater Observations: **Direct Push** Macro Core

Depth: N/R

At:

Hours 문

**Start Date** 06/05/97 **End Date** 06/05/97

Boring ID

NK-SB-313

Logged By: **B.** Tomicic

Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Surface Elevation: D. Brisson

Depth:		At:	Hours	Easting:	
	Sar	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1634676	92		Top 8": Light brown, fine SAND, trace organic matter, dry, loose; Bottom 1.2': Yellowish brown, fine SAND, dry, loose	0.2
†	1634677	92		Yellowish brown, fine SAND, moist, loose	0.2
+4	1634678	54		As Above	2.0
+	1634679	54		Top 6": As Above; Bottom 1': Dark brown, fine SAND, trace Silt, petroleum odor, wet, loose	90.0
+8	1634680	4		Same as last 1' above; Bottom 2": Black, sapric organic matter	500.0
	1634681	4	<del>-</del>	Greyish brown, fine to medium SAND, trace coarse Sand, wet, loose	22.0
+12	1634682	50		Top 8": Yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 10": Grey, varved CLAY, wet, loose	4.0
‡				No Recovery; CLAY at 14'	
16				Bottom of Boring at 16'	
20					
-24					
‡					
Comments	: Boreho	ole backfil	led with be	entonite chips upon completion	

Depth: N/R

Project: Add. Investigation NK Soil Piles LEĂ Comm No: 68V7075 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** 

Drilling Method: Direct Sampling Method: Macr Groundwater Observations: Direct Push Macro Core

Hours 🚆

Start Date 06/05/97 End Date 06/05/97

Boring ID NK-SB-314

Logged By: B. Tomicic
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Depth:	···	At:	Hours	₹ Easting:	
	San	ple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1634683	96		Top 8": Light yellowish brown, fine SAND, trace organic matter, micaceous, dry, loose; Bottom 40": Light brown, fine SAND, micaceous, moist, loose	0.0
Ī	1634684	96		Top 5": Same as last 40", petroleum odor; Middle 4": Dark brown, fine SAND, trace Silt, wet, loose, strong petroleum odor; Bottom 39": Drk yellowish brown, fine SANd, moist,	5.0
<b>T</b> 4	1634685	50		Nose  Dark yellowish brown, fine SAND, Cobble at 5', moist, loose, petroleum odor	6.0
‡	1634686	50		Dark brown, fine SAND, moist, loose, strong petroleum odor	4.0
+8	1634687	83		Dark brown, fine SAND, trace Silt, wet, loose, wet at 8', slight petrtoleum odor; Bottom 6": Dark brown, fine SAND and black sapric organic matter, wet, loose	70.0
†	1634688	83		Greyish brown, fine to medium SAND, wet, trace(-) coarse Sand, loose	40.0
+12 +	1634689	83		Top 1': Greyish brown, medium SAND, trace(+) coarse Sand, wet, loose; Bottom 8": Grey, varved CLAY, wet, loose	0.4
16				Bottom of Boring at 14'	
+ +20					
-24					
Comments	: Boreho	le backfil	lled with be	entonite chips upon completion	

06/06/97 End Date 06/06/97

**Boring ID** 

NK-SB-315

Printed On: 2/9/1998

Boring No: NK-SB-315

Logged By: J. Trzaski

Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Macr
Groundwater Observations: Geoprobe Macro Core

Depth:

Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Surface Elevation: D. Brisson

Northing:

Depth:	1	At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1634622	100	·	Top 2": Organic debris; Middle 1-2': Dark brown, fine SAND, little organic matter, moist, loose; Bottom 8": Light yellowish brown, fine SAND, trace Silt, moist, loose	1.3
‡	1634623	100		Top 6": Light yellowish brown, fine SAND, moist, loose; Bottom 1.5': Light yellowish brown, fine to medium SAND, moist, loose	0.9
14	1634624 1634625	83		Yellowish brown, fine to medium SAND, wet, loose, orange-red, Mottles 5-6'	1.0
†	1634626	83		Yellowish brown, fine to medium SAND, wet, loose	1.4
<b>8</b>	1634627	46		Yellowish brown, fine SAND, trace medium Sand, wet, loose	1.5
†	1634628	46		As Above	1.4
12 - - - - -				Bottom of Boring at 12'	
16					
+20					
+ + + + + 24					
Comments			d with hent		

Comments:

Boring backfilled with bentonite

	•			<u> </u>		rage I of I	
	X-430 Are		er AST	6.00	Start Date	Boring II	)
LEA Comr	n No: 68 ratt & Whit	V7074	র		06/06/97 <b>End Date</b>		
Location:			٠. د		06/06/97	NK-SB-31	16
	ethod: G Method: ter Observa		core 💙	Ω	Logged By: J. 7 Drilling Foreman:	robe 5400	
Depth: Depth:		At: At:	Hours Hours	<u>.</u>	Rorumg: Easting:		
ocpui.		nple Informat			Sample Description		<u> </u>
Elevation/ Depth	Sample Mo.	Recovery (%)	Blows /6*	Moist	mary Grain Size, Secondary Gr ure, Sorting, Sphericity, Angul utary Structures, Density, Cohe	arity,	(ppm)
10	1634629	50		Top 2": Organic fine SAND, trac	debris; Bottom 10": Dark ye e Silt, little organic matter, m	ellowish brown, noist, loose	1.8
† †	1634630	50		matter, moist, k	ellowish brown, fine SAND, t oose; Bottom 6": Light yellov SAND, moist, loose		1.2
<b>+</b>	1634631	83		loose; Bottom 1	ellowish brown, medium to fi  4": Light yellowish brown, fi coarse Sand, micaceous, wet	ne to medium	0.2
‡	1634632	83		trace(-) coarse s dark yellowish t	ellowish brown, fine to medic Sand, micaceous, wet, loose; brown, fine to medium SAND	Bottom 14":	0.6
<b>+8</b>	1634633	54		staining at 7', v Yellowish brown	vet, loose n, fine to medium SAND, we	t, loose	0.1
†	1634634	54		As Above, dark	brown staining at 8', CLAY	at 10.5'	0.2
+12				Bottom of Borin	ng at 12'		
16							
20							
-24							
Comments	: Boring	backfilled	d with bent	conite			<u> </u>

Client: Pratt & Whitney

Drilling Contractor: LEAD Drilling Method: Geopra Sampling Method: Macr Groundwater Observations:

Location: East Hartford, CT

Project: Add. Investigation NK Soil Piles LEA Comm No: 68V7075

LEA Geoprobe

Macro Core

		Hours	Easting:	
San	npie Informati	ion	Sample Description	
Sample No.	Recavery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
1634694	54		Top 2": Organic debris; Middle 6": Light brown, fine SAND, little Silt, dry, loose; Bottom 10": Dark yellowish brown, fine SAND, trace fine to coarse process stone Gravel, dry,	0.0
1634695	54		Same as last 10": moist 3-4'	4.0
1634696	50		Dark yellowish brown, fine SAND, trace(-) organic matter, moist, loose	6.4
1634697 1634698	50		Dark brown, fine SAND, trace Silt, trace medium Sand, wet, loose	6.3
1634699	75		As Above, trace organic matter, Cobble at 9'	7.4
1634700	75		Greyish brown, fine to medium SAND, wet, loose, grading into yellowish brown, fine SAND	7.1
1634701	79		Top 8": Yellowish brown, fine SAND, wet, loose; Bottom 14": Yellowish brown, medium to fine SAND, wet, loose	0.7
1634702	79		Grey, varved CLAY, wet, loose, reddish brown staining at Sand/Clay interface	5.0
			Bottom of Boring at 16'	
	Sample No. 1634694 1634695 1634696 1634699 1634700	Sample Recovery (2)  1634694 54  1634695 54  1634696 50  1634697 50  1634699 75  1634700 75	At:         Hours           Sample Information         Blows /6*           1634694         54           1634695         54           1634696         50           1634697         50           1634699         75           1634700         75           1634701         79	Sample Information  Sample Description  Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  1634694  54  Top 2": Organic debris; Middle 6": Light brown, fine SAND, little Silt, dry, loose; Bottom 10": Dark yellowish brown, fine SAND, trace fine to coarse process stone Gravel, dry, loose  Same as last 10": moist 3-4'  1634696  50  Dark yellowish brown, fine SAND, trace (-) organic matter, moist, loose  1634697  1634698  50  Dark brown, fine SAND, trace Silt, trace medium Sand, wet, loose  1634699  75  As Above, trace organic matter, Cobble at 9'  1634700  76  Greyish brown, fine to medium SAND, wet, loose, grading into yellowish brown, fine SAND, wet, loose; Bottom 14": Yellowish brown, medium to fine SAND, wet, loose  1634702  79  Grey, varved CLAY, wet, loose, reddish brown staining at Sand/Clay interface

	FIC BOK	<u> </u>		Page 1 of 1			
EA Com	X-407 Are: n No: 68 ratt & Whit East Hart	V7078 ney	vest.	Start Date 06/13/97 Boring II End Date 06/13/97 NK-SB-33			
rilling Co rilling Mampling I	ethod: G Method: ter Observa	LEA ieoprobe Macro C		Logged By: J. Trzaski Drilling Foreman: J. Klapheke Drill Rig: GP-5400 Surface Elevation: Northing: Easting:			
	San	ple Informat	ion	Sample Description	l		
rvation/ pth	Sample No.	Recovery (2)	Blows ⁄6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
†°	1635787	98		Yellowish, brown to dark yellowish brown, fine SAND with Silt, trace organic matter, trace fine and coarse Gravel; Top 8": Dry to slightly moist, loose	0.0		
‡ ‡	1635788	98		Top 12": Dark brown, fine SAND with Silt; Middle 4": Grey SILT and very fine SAND, moist, dense, slightly moist to moist, loose; Bottom 8": Light olive brown, fine to very	11.1		
<b>†</b> 4	1635789	83		Tine SAND, moist, loose  Dark yellowish brown, fine to medium SAND, wet, loose	0.0		
‡	1635791	83		Top 6": Grey, fine SAND, trace medium Sand, wet, loose Bottom 14": Greyish brown to light olive brown, fine(+) to medium SAND, wet, loose.	7.4		
+8	1635792	83		Yellowish brown, fine(+) to medium SAND, wet, loose	1.0		
†	1635793	83		Top 12": As above, trace coarse SAND; Bottom 8": Grey, varved CLAY, wet, loose	1.3		
+12				Bottom of Boring at 12'			
16							
20							
24							

Project: X-407 Area Add. Invest. LEA Comm No: 68V7078 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe MC Macro Core **Groundwater Observations:** 

Depth:

At:

Hours

06/13/97 **End Date** 06/13/97

**Start Date** Boring ID **NK-SB-334** 

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: J. Trzaski J. Klapheke

Elevation/ Depth		nple Informat	ion	Sample Description	
	Same			Color Division Cook Sine Cook Cook Sine	t
	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
To	1635794	79		Top 2": Black bituminous asphalt; Middle 7": Brown, fine SAND, little Silt, trace process stone, fine and coarse Gravel, dry, loose; Bottom 10": Dark brown, SILT with fine	4.2
1	1635795	79		Sand, trace organic matter, slightly moist, dense  Top 6": Brown, fine SAND, slightly moist, loose; Middle 3":  Grey, SILT and very fine Sand, moist, dense; Bottom 10":  Light brown to brown, very fine to fine SAND, moist, loose,	3.0
+	1635796	83		Yellowish brown, fine to medium SAND, wet, loose	5.8
Ī	1635797	83		As Above, Trace coarse SAND in bottom 8"	4.0
<del> </del> 8	1635798	75		As Above, trace(-) coarse SAND	4.6
<del>-</del>	1635799	75		Top 10": As Above; Bottom 9": Grey, varved CLAY, wet, loose	4.0
12				Bottom of Boring at 12'	
-16					
20					
-24					
T	·			•	

Project: X-407 Area Add. Invest. Start Date **Boring ID** 68V7078 06/13/97 LEA Comm No: Client: Pratt & Whitney **End Date** NK-SB-335 East Hartford, CT Location: 06/13/97 **Drilling Contractor:** Logged By: J. To Drilling Foreman: J. Trzaski LEA Geoprobe MC Drilling Method: J. Klapheke Sampling Method: Drill Rig: GP-5400 Macro Core Surface Elevation: Groundwater Observations: Depth: Northing: At: Depth: At: Hour Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample ecovery (な) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1635800 83 2.6 Top 4": Black asphalt with process stone fine and coarse Gravel; Middle 6": Yellowish brown, fine SAND, slightly moist, loose; Bottom 10": Dark brown to black, SILT, some fine Sand, slightly moist, moderately dense 1635801 83 2.8 Top 6": Same as last 10"; Bottom 14": Brown, fine SAND, little very fine Sand, moist, loose 1635802 92 4.0 Top 8": Same as last 14": wet; Bottom 14": Yellowish brown, fine to medium SAND, wet, loose 1635803 92 2.7 Yellowish brown, fine(+) to medium SAND, little very fine Sand, wet, loose No Recovery No Recovery Bottom of Boring at 12' 16 20 Boring backfilled with bentonite Comments:



Project: X-407 Area Add. Invest. LEA Comm No: 68V7078 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: Geoprobe MC

Macro Core **Groundwater Observations:** 

Depth: Depth:

Start Date 06/13/97 **End Date** 06/13/97

**Boring ID** 

**NK-SB-336** 

J. Trzaski

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: J. Klapheke

Depth:	1	lt:	Hours	₹ Easting:	
	San	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (と)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1635804	95		6": Asphalt - Punched, No Recovery; 20": Dark brown, SILT and fine to medium SAND with fine Gravel, dense, moist; 20": Brown, fine to medium(+) SAND, little Silt, moist, loose	1.5
+4	1635806	92		As Above, wet	2.4
† † †	1635807				4.4
+ 8 +	1635808	100		36": Brown, fine to coarse SAND, trace fine Gravel, trace Silt, wet, loose; 12": Grey, CLAY, with Silt, trace fine	2.9
‡ ‡	1635809			Sand, wet, laminated	2.5
12				Bottom of Boring at 12'	
16				·	
20					
24					
Comments	: Boring	backfille	d with bent	conite	<u> </u>

Groundwater Observations:

Project: X-407 Area Add. Invest. **LEA Comm No:** 68V7078 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe MC Sampling Method: Macro Core

Hours

Start Date 06/13/97 **End Date** 06/13/97

**Boring ID NK-SB-337** 

Logged By: J. Klaphel Drilling Foreman: J. Drill Rig: GP-5400 Surface Elevation: J. Klapheke J. Trzaski

Depth:	Ī	At:	Hours	Easting:		
··········	San	ple Informs	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1635810 1635811	75		10": Grey, fine GRAVEL and fine to coarse SAND, little Silt, dry to slightly moist, loose; 14": Black to grey green, SILT, with fine SAND, slightly moist, dense; 12": Brown, fine(+) to medium SAND, moist, loose	2.7 3.5	
<b>1</b> 4	1635812	62		Brown, medium to coarse SAND, trace fine Sand, trace Silt, wet, loose	2.8	
‡	1635813				2.7	
+ <b>8</b>	1635814	100		42": Brown, fine to coarse SAND, little Silt, wet, loose to slightly dense	1.4	
‡	1635815	100		6": Grey, CLAY with Silt, trace fine Sand, laminated, wet, dense	1.6	
+12				Bottom of Boring at 12'		
ŧ						
16						
1						
‡20 ‡						
‡ †						
+ + +						
Comments	Boring	backfille	d with bent	onite	l	

decledic borning bod		Page 1 of 1
Project: Expl. Storage Building:UST LEA Comm No: 68V7085	Start Date 07-15-97	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	End Date 05-15-97	NK-SB-338
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core/Large Groundwater Observations: Depth: At: Hours Depth: At: Hours	Drilling Foreman	probe 5400
Sample Information	Sample Description	

Depth: Depth:		At: At:	Hours Hours	₩ Northing: Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1637979	96		Top 6": Dark brown, fine to very fine SAND, trace organic materials, root material, moist, moderately dense	3.8
†	1637980	96	·	Bottom 27": Brown, fine SAND, moist, moderately dense	4.3
+4	1637981	75		Top 10": As Above, grey to grey-brown; Bottom 8": Brown, fine to medium SAND, wet, loose; As Above	4.2
† †	1637982	75		As Above	4.1
+8				Bottom of Boring 8'	
Į.					
<u>†</u> .					
12					
‡					
Ţ					
16		1			
† "					
Ī					
† 20					
+20					
İ					
1					
24					
<u> </u>					
Comments	:				



Project: Expl. Storage Building:UST LEA Comm No: 68V7085 Start Date **Boring ID** 07-15-97 End Date Client: Pratt & Whitney **NK-SB-339** Location: East Hartford, CT 05-15-97 Logged By: M. Budnick
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Sampling Method: D. Brisson Geoprobe Macro Core/Large Core Groundwater Observations: Hours 💆 Depth: Northing:

Deptn: Depth:		kt: kt:	Hours	Northing:	
	Sam	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
,	1637983	88		Top 6": Dark brown, fine SAND, trace organic material, root material, moist, moderately dense; Bottom 15": Brown, fine SAND, moist, moderately dense	3.5
† †	1637985 1637984	88		As Above, moist to wet at 4'	3.4
+4	1637986	88		Top 10": As Above; Grey to grey-brown; Bottom 8": Brown, fine to medium SAND, wet, loose	4.2
†	1637987	88		As Above	4.0
8				Bottom of Boring 8'	
<b>+</b>					
12					
Ī					
‡					
+16 +					
-20					
‡					
24					
Ŧ					



Project: Expl. Storage Building:UST
LEA Comm No: 68V7085
Client: Pratt & Whitney
Location: East Hartford, CT
Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core/Large Col
Groundwater Observations:
Depth: At: Hours

Start Date 07-15-97 End Date 05-15-97

Boring ID

NK-SB-340

Logged By: M. Budnick
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400

Surface Elevation:

Depth:		1: 1:	Hours	Easting:	
	San	npie Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1637988	96		Top 8": Drk brown, fine to very fine SAND and SILT, trace organic material, moist, loose; Bottom 15": Brown, fine SAND, moist to wet, moderately dense	3.1
† +	1637989			Grey-orange brown, fine SAND, moist to wet, moderately dense	3.2
+4	1637990	88		Top 15": As Above; Bottom 6": Brown, fine SAND, moist, moderately dense, iron-staining present	3.3
† †	1637991			As Above	3.6
<del>+</del> 8				Bottom of Boring 8'	
<del> </del>					
+12 + +					
† + + + 16					
T 10					
20					
† † †					
+ 24 					
Comments	:				

Project: Expl. Storage Area, Chem. Bldg. LEA Comm No: 68V7084 Start Date 07/16/97 End Date **Boring ID** Client: Pratt & Whitney NK-SB-341 Location: East Hartford, CT 07/16/97 Logged By: D. Brisson
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting: Drilling Contractor:
Drilling Method:
Sampling Method: **LEA** Geoprobe D. Brisson Macro Core **Groundwater Observations:** Depth: NR Hours

Depth:		At:	Hours	Easting:	
	San	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
•	1637999	75		Top 6": Brown to strong brown, fine to very fine SAND, trace(-) medium Sand, trace organics, moist, moderately dense; Bottom 12": Yellow, orange to grey, brown, fine	4.0
Ī	1638000 1638001	75		SAND, trace(-) medium Sand, moist, loose As Above, Bottom 12"	4.3
+4	1638002	83		Top 18": Yellow orange, fine SAND, trace(+) medium Sand, wet, loose; Bottom 2": Brown, fine to very fine SAND, wet, loose	3.3
Ī	1638003	83		Light brown, fine SAND, trace(+) medium Sand, wet, loose	4.7
-8	1638004	100		Top 3": As Above; Bottom 21": Grey, CLAY, thinly laminated with fine to very fine Sand and Silt, wet, loose	3.3
‡	1638005	100		As Above	0.0
‡ <sub>12</sub>		<u> </u>			
‡		1		Bottom of Boring at 12'	
‡		1 1	I		
‡		1 1			
+16					
‡		1 1			
<u> </u>					
†					
Ŧ aa					
+20					
‡		1			
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t	<u> </u>	اـــــــــــــــــــــــــــــــــــــ			L
Comments	Boring	begins a	t base of c	oncrete, 4" of concrete cored.	

LΕΔ

Project: Expl. Storage Area, Chem. Bldg. Boring ID LEA Comm No: 68**V**7084 Client: Pratt & Whitney **End Date** NK-SB-342 Location: East Hartford, CT 07/16/97 Logged By: **Drilling Contractor:** D. Brisson LEA Drilling Method: Drilling Foreman: D. Brisson Geoprobe Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NR Hours Northing: At: Depth: Hours Easting: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1638006 88 0.0 Top 12": Brown to strong brown, fine to medium SAND, trace(-) medium Sand, trace(+) Silt, moist, loose; Bottom 6": Yellow Orange to grey brown, fine SAND, trace(-) medium Sand, moist, loose 1638007 88 0.0 As Above, bottom 6" 88 1638008 0.0 Light brown, fine SAND, trace(-) medium Sand, wet, loose 1638009 88 0.0 As Above 1638010 100 Top 12": As Above grading to very fine SAND, trace(-) Silt; Bottom 12": Grey, CLAY, thinly laminated with fine to very fine Sand and Silt, wet, loose 1638011 100 0.0 As Above 12 Bottom of Boring at 12' 20 Boring No: NK-SB-342 Comments:

Project: X-194 Add. Inv. Former AST **Start Date Boring ID** LEA Comm No: 68V7062 08/29/97 Client: Pratt & Whitney **End Date NK-SB-343** Location: East Hartford, CT 08/29/97 Logged By: J. Trzaski **Drilling Contractor:** Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Drilling Method: D. Brisson Geoprobe Sampling Method: Macro Core Surface Elevation: Groundwater Observations: Depth: Hou Northing: At: At: Hours Easting: Depth: Sample Description Sample Information Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1641767 88 4.7 Top 2": Fibric organic debris; Middle 30": Yellowish brown to brown, fine SAND, little Silt, trace fibric Organic Matter, moist to wet, loose; wet @ 25"; Bottom 10": Brown, fine SAND, little medium Sand, trace Silt, wet, loose 1641768 4.1 Bottom of Boring 4' 16 20 Boring N Comments:



Boring No: NK-SB-344

Page 1 of 1 Project: X-194 Add. Inv. Former AST **Start Date Boring ID** 68V7062 LEA Comm No: 08/29/97 Client: Pratt & Whitney **End Date** NK-SB-344 East Hartford, CT Location: 08/29/97 **Drilling Contractor: LEA** Logged By: J. Trzaski Drilling Method: Geoprobe Drilling Foreman: D. Brisson Sampling Method: Macro Core Drill Rig: Geoprobe 5400 **Groundwater Observations:** Surface Elevation: Northing: Hours Depth: Hours Depth: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness Cored through 5" concrete; Top 6": Concrete pieces and dust; Middle 12": Yellowish brown to brown, fine(+) to very fine SAND, trace Silt, moist, loose; Bottom 24": Brown, fine 1641769 88 6.0 SAND, little moist Sand, trace Silt, moist to wet, loose, 1641770 3.8 wet @ 10' Bottom of Boring at 4' Printed On: 2/9/1998 16 20

Comments:

X-194 Add. Inv. Former AST Start Date Project: **Boring ID** LEA Comm No: 68V7062 08/29/97 Client: Pratt & Whitney **End Date NK-SB-345** Location: East Hartford, CT 08/29/97 **Drilling Contractor: LEA** Logged By: J. Trzaski Drilling Foreman: **Drilling Method:** Geoprobe D. Brisson Drill Rig: Sampling Method: Macro Core Geoprobe 5400 **Groundwater Observations:** Surface Elevation: Hours Northing: Hours Depth: At: **Easting:** Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 5.4 1641771 75 Top 26": Yellowish brown, fine SAND, little Silt, trace fibric organic matter (top 10"), slightly moist to moist, loose; Bottom 10": Brown, fine SAND, trace medium Sand, trace Silt, wet, loose, black-staining bottom 2", metal 1641772 4.8 shard at bottom, iron staining at bottom Bottom of Boring at 4' 12 16 20 24 Comments:

Project: Fire Training Area "B" LEA Comm No: 68TR664 Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor: LEA** Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: Geoprobe Macro core Hours 🚆

Start Date 7/31/96 End Date 7/31/96

**Boring ID SA-SB-10** 

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	Sar	nple Informat	tion	Sample Description	
Rievation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
°	1016466	100		Reddish brown, fine SAND, little Silt, trace medium Sand, moist, moderately loose, root fragments	0.4
Ī	1016467 1016468	100		Yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	0.0 0.2
+4	1016469	100	u	12": Greyish brown, fine SAND, little medium Sand, trace Silt, very moist, loose; 12": Yellowish grey, medium SAND, some coarse Sand, little fine Sand, trace Silt, wet, loose	0.2
1.	1016470	100		5": As above; 7": Dark grey, fine SAND, with medium Sand, some Silt, trace coarse Sand, wet, moderately loose; 2": Black, fine to medium SAND, with Silt, trace coarse Sand, wet, loose; 9": Olive brown, fine SAND, with Silt, trace	21.0
T°	1016471	100		medium Send 8": As above; 15": Olive grey, fine SAND, some Silt, wet,	30.0
‡	1016472	100		As above	12.0
+12	1016473	100	·	18": Dark yellowish red, medium SAND, with fine Sand, some, coarse Sand, trace Silt, wet, loose; 5": Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
‡	1016474	100		As above	0.0
+16 				Bottom of boring at 15.0'	
24					
Comment	Porobo	le hearfil	led with he	entonite chips upon completion.	<u> </u>
	. DUI 6110	ng Dackill	nou with be	monto empe apon compicació	

Printed On: 1/20/1998

Project: Fire Training Area "B"

LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford

Location: East Hartford, CT

Drilling Contractor: LEA

Drilling Method: Geoprobe

Sampling Method: Macro core

Groundwater Observations:

Depth: NM At: Hours

Start Date 7/31/96 End Date 7/31/96

Boring ID SA-SB-11

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400

Surface Elevation: Northing:

	Nort
	East

Depth:	At: Hours			Easting:		
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn	
	1016475	100	·	4": Dark brown, fine SAND, little Silt, trace medium Sand, moist, loose, root fragments; 19": Reddish brown, fine SAND, little Silt, trace medium Sand, moist, moderately loose, root fragments	0.0	
+	1016476	100	··	17": Light yellowish grey, medium SAND, little fine Sand, trace(+) coarse Sand, trace(-) Silt, moist, loose; 6": Olive brown, fine SAND, trace Silt, moist, loose	0.0	
+	1016477	100		12": As above; 11": Dark yellowish red, medium SAND, with fine Sand, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0	
‡ †	1016478	100		Olive brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.0	
+8	1016479	100		Olive brown, fine SAND, some Silt, trace medium Sand, wet, moderately, loose	0.0	
†	1016480	100		2": As above; 21": Dark yellowish red, medium SAND, with fine Sand, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0	
+12 +	1018481	100		As above	0.0	
+	1016482	100		2": As above; 10": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
16				Bottom of boring at 15.0'		
20				·		
† † †						
24						
Comments	• Boreho	le hackfill	led with he	entonite chips upon completion.	i	

LEA

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Project: Fire Training Area "B" LEA Comm No: 68TR664
Client: Pratt & Whitney East Hartford Location: East Hartford, CT

**Drilling Contractor: LEA** Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations: Depth: NM At:

Hours

**Start Date** 7/31/96 **End Date** 7/31/96

**Boring ID SA-SB-12** 

Logged By: L. B Drilling Foreman: L. Bianchi

J. Sweeton Geoprobe 5400

Drill Rig: Geopr Surface Elevation: Northing:

Depth:		At:	Hours	Easting:		
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
l	1016483	100		Reddish brown, fine SAND, little Silt, trace medium Sand, moist, moderately loose, root fragments	0.0	
‡	1016484	100		Yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	0.7	
+4	1016485	100		17": Greyish brown, fine SAND, little medium Sand, trace Silt, very moist, loose; 6": Yellowish grey, medium SAND, some coarse Sand, little fine Sand, trace Silt, wet, loose	0.0	
‡	1016486	100		3": As above; 7": Dark grey, fine SAND, with medium Sand, some Silt, trace coarse Sand, wet, loose; 13": Black, medium to fine SAND, with Silt, trace coarse Sand, wet,	50.0	
†*	1016487	100		8": Olive brown, fine SAND, with Silt, trace medium Sand, wet, loose; 15": Olive grey, fine SAND, some Silt, wet, slightly loose	2.0	
I I	1016488	100		As above	1.7	
+12	1016489	100	· _	18": Dark yellowish red, medium SAND, with fine Sand, some coarse Sand, trace Silt, wet, loose; 5": Olive grey, varved CLAY, trace Silt, wet, stiff	8.0	
1 1	1016490	100		As above	0.2	
16				Bottom of boring at 15.0'		
+20 +				·		
24						
<u> </u>					<u> </u>	
Comments	: Boreho	ole backfil	led with be	entonite chips upon completion.		



Printed On: 1/20/1998

Project: Fire Training Area "B" LEA Comm No: 68TR664 Client: Pratt & Whitney East Hartford Location: East Hartford, CT Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro core **Groundwater Observations:** 

tart Date 8/2/96 End Date 8/2/96

**Boring ID SA-SB-13** 

Logged By: J. Klapheke Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth: NM Depth:	1 4	utions: At: At:	Hours Hours	Surface Elevation: Northing: Easting:		
<u> </u>	Sample Information			Sample Description	Т	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
°	1016494	100		Dark reddish brown, fine(+) to coarse SAND, little fine Gravel, slightly moist, loose, rooted in upper 10", concrete fragments	1.4	
	1016495	100		As above, no roots	1.4	
+4	1016496	75		As above, moist to wet	1.0	
+ -	1016497	75		Brown to light greyish brown, medium to coarse (+) SAND, with fine Gravel, wet, loose	1.9	
+8 -	1016498	75		As above, some iron staining	1.9	
‡	1016499	75		As above	1.8	
12	1016500	25		As above		
†				No recovery	 	
16		+		Bottom of boring 16'		
†						
20						
‡						
Ŧ				·		
+24						
		1 1			1	

Project: Fire Training Area "B" LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro core

**Groundwater Observations:** 

Depth: NM

At: Hours Start Date 8/2/96 End Date 8/2/96

**Boring ID** 

SA-SB-14

Logged By: J. Klapheke Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth:		At:	Hours	Easting:	
	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016502	100		Dark reddish brown, fine(+) to medium SAND, trace fine Gravel, slightly moist to moist, slightly dense to loose, top 10" rooted	2.3
† + +	1016503	100		Dark reddish brown, fine(+) to medium SAND, moist, slightly dense	4.0
+4	1016504	83		As above	3.4
<b>†</b>	1016505	83		Light grey brown, coarse(+) to medium SAND, some fine Gravel, moist to wet, slightly dense	3.0
+8	1016506	75		Light greyish brown, coarse to very coarse SAND, with fine Gravel, wet, loose, occasional iron staining	2.2
†	1016507	75		As above	3.4
12	1016508	63		Light grey brown, fine to coarse SAND, some coarse Sand, wet, loose	2.0
† †	1016509	63		As above	2.0
-16 				Bottom of boring at 16'	
Comments	* Roreho	le backfi	illed with he	entonite chips upon completion.	

Project: Fire Training Area LEA Comm No: 68TR664 Fire Training Area "B" Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro core Groundwater Observations: Depth: NM At: Hours

Start Date 8/2/96 End Date 8/2/96

**Boring ID SA-SB-15** 

Logged By: J. Klapheke
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth:		At:	Hours	Easting:		
	Sar	nple Informat	tion	Sample Description	Τ	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1016510	100		Dark reddish brown, fine SAND, with Silt, slightly moist, slightly dense, upper 10" rooted	2.6	
† †	1016511	100		As above, slightly moist to moist, no rooting	3.2	
+4	1016512	83		As above, moist	3.6	
† †	1016513	83		Light grey brown, fine to coarse SAND, trace Silt, moist to wet, loose, coarsening down	2.9	
+8	1016514	75		Light grey brown, fine to coarse(+) SAND, little fine Gravel, wet, loose	4.0	
† †	1016615	75		As above	3.0	
12	1016616	76		Reddish brown, coarse to very coarse SAND, with fine Gravel, wet, loose	1.5	
†	1016517	75		As above	0.5	
16				Bottom of boring 16'		
÷20						
‡ + +24				•		
Commen	ts: Boreho	le backfil	led with be	ntonite chips upon completion.		

Fire Training Area "B" Project: LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford

Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geoprobe

Sampling Method: Large bore/Macro core **Groundwater Observations:** 

Depth: 6.2 Depth:

At: 0

Hours Hours **Start Date** 8/5/96 End Date 8/5/96

**Boring ID** 

**SA-SB-16** 

F. Postma

J. Sweeton

Logged By: F. Postri Drilling Foreman: Drill Rig: Geoprobe Surface Elevation: Northing:

Easting:

1016519 90 Ym  1016520 60 A  1016521 60 R S  1016522 100 A  12 1016524 70 A  1016525 70 A	Easting:		
Depth   Sample   Recovery   Blows	Sample Description		
1016519 90 Ym  4 1016520 60 A  8 1016522 100 A  1016523 100 A  112 1016524 70 A  16 B	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
4 1016520 60 A  1016521 60 R  8 1016522 100 A  1016523 100 A  1016524 70 A  1016525 70 A	Brownish yellow, fine SAND, trace(+) medium Sand, loose, moist, lense of silty Sand at 1.3'	0.6	
1016521 60 R S 1016522 100 A 1016523 100 A 112 1016524 70 A 1016525 70 A	Yellowish red, medium SAND, little coarse Sand, loose, moist	0.9	
8 1016522 100 A 1016523 100 A 12 1016524 70 A 1016525 70 A	As above	3.8	
1016523 100 A  112 1016524 70 A  1016525 70 A  B	Reddish brown, medium SAND, some fine Sand, little coarse Sand, loose, wet	1.2	
1016524 70 A St	As above, dark brown staining at 8.9', fine Sand lense at 9.6' to 9.8'	0.5	
1016524 70 A Sc	As above; Dark brown staining at 12'	. 1.4	
16 B	As above; Bottom 4*: Brownish yellow, medium SAND, some fine Sand, trace coarse Sand, loose, wet	2.0	
16	As above	0.0	
20	Bottom of boring 15'		
	•		
+24			
Comments: Borehole backfilled with bento	Itonite chips upon completion.		

Project: Fire Training Area "B"
LEA Comm No: 68TR664 **Start Date** · Boring ID 8/5/96 End Date Client: Pratt & Whitney East Hartford Location: East Hartford, CT **SA-SB-17** 8/5/96 Logged By: F. Postma
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: 7.2 At: 0 Depth: At: Geoprobe Macro core J. Sweeton Northing: Hours

Depth:	· · · · · · · · · · · · · · · · · · ·	lt:	Hours	₹ Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
l	1016526	100		Brown, fine SAND, trace(-) Silt, loose, moist	2.3	
	1016527	100		Brownish red, medium SAND, some fine Sand, trace(-) Silt, loose, moist; Brownish yellow, medium SAND, moist, some fine Sand, loose	1.5	
<b>T</b>	1016528	70		As above	2.4	
<u> </u>	1016529	70		As above, wet at 7.2'	3.8	
+8	1016530	100		As above	2.0	
	1016531	100		Top 2": As above; Bottom 22": Red to dark reddish brown, medium SAND, little fine Sand, little coarse Sand, loose, wet, iron staining, mottles	1.8	
12	1016532	80		Top 1': As above; Bottom 7": Olive yellow, medium SAND, some fine Sand, trace coarse Sand, loose, wet	3.5	
<u> </u>	1016533	80		As Above Sand, loose, wet	4.0	
16				Bottom of boring at 15'		
20			·			
‡						
十24						



Project: Fire Training Area "B" LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford

Location: East Hartford, CT **Drilling Contractor:** 

Geoprobe Macro core

Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: 7.1 At: 0

Hours

Start Date 8/5/96 **End Date** 

8/5/96

Boring ID

**SA-SB-18** 

Logged By: F. Postma
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing	:
Fasting:	

Depth:	Ī	At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn
-	1016534	100		Strong brown to brown, fine SAND, trace Silt, trace medium Sand, loose, moist, root hairs	2.4
†	1016535	100		Brownish yellow, medium SAND, some fine Sand, trace coarse Sand, loose, moist	2.1
+4	1016536	70		As above	1.0
1 4	1016537	70		As above, wet at 7.1'	3.2
<del>+</del> 8	1016538	100		As above	2.0
‡	1 <b>016542</b> 1016539	100		Dark reddish brown, medium SAND, some fine Sand, trace(+) coarse Sand, loose, wet, iron staining, mottles	1.4
<del>+</del> 12	1016540	50		Top 1': Brown, medium SAND, some fine Sand, trace(+) coarse Sand, loose, wet; Bottom 6": Olive yellow, fine SAND, loose, wet	1.1
‡	1016541	50		As above	1.5
16	- <del> </del>			Bottom of boring at 15'	
20					
24					
Comments	: Boreho	le backfil	led with be	entonite chips upon completion.	

Project: Contractor Storage Area rt Date **Boring ID** 8/6/96 LEA Comm No: 68TR664 Client: Pratt & Whitney East Hartford **End Date SA-SB-19** Location: East Hartford, CT 8/6/96 Logged By: L. Bianchi **Drilling Contractor:** Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Sampling Method: Drill Rig: Geoprobe 5400 Macro core Groundwater Observations: Surface Elevation: Northing: Depth: N/M Hours Hours Easting: Depth: At: Sample Information Sample Description Elevation/ Depth color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1016706 100 6": Reddish brown, medium SAND, some coarse Sand, little N/A fine Sand, trace fine Gravel, slightly moist, loose; 17": Dark yellowish brown, fine SAND, some Silt, trace medium Sand, moist, slightly loose 100 1016707 N/A Yellowish brown, medium SAND, some fine Sand, trace coarse Sand, moist, loose 1016708 100 N/A As above, wet  $\approx 5.5$  to 6.0' 1016709 N/A As above, wet 1016710 100 N/A Dark yellowish grey, medium SAND, some fine SAND, little coarse Sand, trace Silt, trace(-) fine Gravel, wet, loose 1016711 100 N/A Dark reddish yellow, fine SAND, with medium Sand, some Silt, little coarse Sand, trace fine Gravel, wet, loose 12 1016712 100 Yellowish brown, fine SAND, some Silt, trace(-) medium Sand, wet, loose Printed 1016713 100 N/A As above Bottom of boring at 15' 16 20 24 Borehole backfilled with bentonite chips upon completion. Comments:

Z

Project: Contractor Storage Area LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford Location: East Hartford, CT

**Drilling Contractor: Drilling Method:** Geoprobe Sampling Method: Macro core Groundwater Observations:

Depth: N/M Hours Start Date 8/6/96 and Date 8/6/96

Boring ID

SA-SB-20

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:	A	lt:	Hours	Easting:	
	Sam	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1016697			12": Reddish brown, medium SAND, some coarse Sand, little fine Sand, trace fine Gravel, slightly moist, loose; 11": Dark yellowish brown, fine SAND, some Silt, trace medium Sand, moist, slightly loose	0.0
‡ ‡	1016698			Yellowish brown, medium SAND, some fine Sand, trace coarse Sand, moist, loose	0.0
+4	1016699			As above, wet ≈ 5.5-6.0'	0.0
Ī	1016700			As above, wet	0.0
+ 8	1016701			Dark yellowish grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, trace(-) fine Gravel, wet, loose	0.0
+	1016702			Dark reddish yellow, fine to medium SAND, with Silt, little coarse Sand, trace fine Gravel, wet, loose	0.0
12	1016703			Yellowish brown, fine SAND, some Silt, trace(-) medium Sand, wet, moderately loose	0.0
‡	1016704			As above	0.0
16				Bottom of boring at 15.0'	
24					

				Auge 1 of 1	
Project: LEA Com	Contractor	Storage A	Area	Start Date 8/6/96 Boring II	)
	Pratt & Whit	tney East	Hartford	Fred Date	
ocation:	East Hart	ford, CT		8/6/96 SA-SB-2	1
Orilling Manual Inches	Method: iter Observa	LEA Seoprobe Macro co itions: At:	ore Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
Depth:		At:	Hours	Easting:	
	San	nple Informati	on .	Sample Description	
Slevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
•	1016682	100		18": Reddish brown, medium SAND, some coarse Sand, little fine Sand, trace fine Gravel, slightly moist, loose; 5": Yellowish brown, fine SAND, little medium Sand, trace Silt,	0.0
‡	1016683	100		As above	0.0
<b>+4</b>	1016684 1016685	100		As above, wet ≈ 5.5'-6.0'	0.0
‡	1016686	100		As above, wet	0.0
8	1016687	100		Dark yellowish brown, fine to medium SAND, some coarse Sand, little Silt, wet, loose	0.0
Ī	1016688	100		Dark yellowish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0
12	1016695	100		Olive brown, fine SAND, some Silt, little medium Sand, trace(+) coarse Sand, trace(-) fine Gravel, wet, moderately loose	0.0
‡	1016696	100		As above	0.0
+ 16				Bottom of boring at 15.0'	
20					
<del> </del>		·			
24					
Comments	s: Boreho	ole backfille	ed with be	entonite chips upon completion.	
	. 20.0110	no Daokiiii			

Project: Contractor Storage Area LEA Comm No: 68TR664 LEA Comm No: 68TR664
Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro core **Groundwater Observations:** Depth: N/M At: Hours **Start Date** 8/6/96 End Date 8/6/96

**Boring ID** 

**SA-SB-22** 

Logged By: L. B Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Fasting:

Sample No. 1016675 1016676 1016677 1016678	Pick   Pick	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  12": Reddish brown, medium SAND, some coarse Sand, little fine Sand, trace fine Gravel, slightly moist, loose; 11": Yellowish brown, fine SAND, little medium Sand, trace Silt, moist, loose As above  As above, wet ≈ 5.5'-6.0'  Dark yellowish brown, fine SAND, some coarse Sand, little	0.0 0.0 0.0
1016675 1016676 1016677 1016678	100	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness  12": Reddish brown, medium SAND, some coarse Sand, little fine Sand, trace fine Gravel, slightly moist, loose; 11": Yellowish brown, fine SAND, little medium Sand, trace Silt, moist, loose  As above  As above, wet ≈ 5.5'-6.0'  Dark yellowish brown, fine SAND, some coarse Sand, little	0.0
1016676 1016677 1016678	100		little fine Sand, trace fine Gravel, slightly moist, loose; 11": Yellowish brown, fine SAND, little medium Sand, trace Silt, moist, loose As above  As above, wet ≈ 5.5'-6.0'  Dark yellowish brown, fine SAND, some coarse Sand, little	0.0
1016677 1016678 1016679	100		As above  As above, wet ≈ 5.5'-6.0'  As above, wet  Dark yellowish brown, fine SAND, some coarse Sand, little	0.0
1016678 1016679	100		As above, wet  Dark yellowish brown, fine SAND, some coarse Sand, little	0.0
1016679	100	·	Dark yellowish brown, fine SAND, some coarse Sand, little	
			Dark yellowish brown, fine SAND, some coarse Sand, little	0.0
1016680	100		Silt, trace fine Gravel, wet, loose	
			As above, trace(-) fine Gravel	0.0
1016681	100		Olive brown, fine SAND, some Silt, little medium Sand, trace(+) coarse Sand, trace(-) fine Gravel, wet, moderately loose	0.0
1016705	100		As above	0.0
			Bottom of boring at 15.0'	
1				trace(+) coarse Sand, trace(-) fine Gravel, wet, moderately loose  As above

**Project:** Contractor Storage Area LEA Comm No: 68TR664 Client: Pratt & Whitney East Hartford

Location: East Hartford, CT

**Drilling Contractor:** LEA **Drilling Method:** Geoprobe Sampling Method: Macro core

**Groundwater Observations:** 

Depth: N/M Hours Start Date 8/7/96 End Date 8/7/96

**Boring ID SA-SB-23** 

L. Bianchi

Logged By: L. Bi Drilling Foreman: J. Sweeton Geoprobe 5400

Drill Rig: Geopre Surface Elevation:

Northing:

Sedimentary Structures, Density, Cohesiveness	Depth:	1	At:	Hours	₹ <b>Easting:</b>	
Depth   Secretary   Bigger   Moisture, Sorting, Sybericity, Angularity, Sedimentary Structures, Density, Cohesiveness   Send, little fine Gravel, trace Silt, moist, loose		San	nple Informa	tion		
Sand, little fine Gravel, trace Silt, moist, loose    1016716   100		Sample No.	Recovery (2)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm
1016717   100   As above   1016718   100   As above   1016719   100   As above   1016720   100   As above   1016721   100   As above   1016721   100   As above   1016722   100   Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose   1016723   100   As above   1016723   100   As above   1016723   100   As above   Bottom of boring at 15.0'	ļ°	1016715	100			0.0
B 1016719 100   Dark yellowish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose   1016721 100   Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose   1016723 100   As above   Gravel   Bottom of boring at 15.0'	‡	1016716	100			0.1
1016719 100 Dark yellowish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose  1016721 100 As above  1016722 100 Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose  1016723 100 As above  Bottom of boring at 15.0'	+4	1016717	100		As above, wet ≈ 5.5-6.0'	0.0
little coarse Sand, trace fine Gravel, wet, loose  1016721 100 As above  Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose  1016723 100 As above  Bottom of boring at 15.0'	<del> </del>	1016718	100		As above	0.0
Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose  1016723 100 As above  Bottom of boring at 15.0'		1016719 1016720	100		Dark yellowish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose	0.2
Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose  1016723 100 As above  Bottom of boring at 15.0'	‡	1016721	100		As above	0.1
Bottom of boring at 15.0'	12	1016722	100		Dark reddish yellow, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, wet, loose	0.0
- 20 - 20	‡	1016723	100		As above	0.0
	16				Bottom of boring at 15.0'	
	Ī				•	
	20					
+24	24					

Printed On: 1/21/1998

Project: Contractor Storage Area LEA Comm No: 68TR664

Client: Pratt & Whitney East Hartford

Location: East Hartford, CT **Drilling Contractor: Drilling Method:** Geoprobe

Macro core Sampling Method: **Groundwater Observations:** 

Depth: N/M
Depth:

Hours At: Hours Start Date 8/7/96 End Date 8/7/96

Boring ID

**SA-SB-24** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

		At:	Hours	₹ Casting:	
	San	aple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп
ļ°	1016724	100		Reddish brown, medium SAND, with fine Sand, some coarse Sand, trace(+) Silt, trace(-) fine Gravel, moist, loose	0.1
† †	1016725	100		Yellowish brown, medium SAND, with fine Sand, some coarse Sand, little Silt, moist, loose	0.3
<b>+</b> 4	1016726	100		As above, wet ≈ 5.5' to 6.0'	0.1
‡ ‡	1016727	100		As above	0.0
8	1016728	100		As above	0.0
‡	1016729	100		As above	0.1
12	1016730	100		Dark reddish yellow, medium to coarse SAND, little fine Sand, trace Silt, wet, very loose	0.1
ŧ	1016731	100		As above	0.1
16				Bottom of boring at 15.0'	
† †					
20					
-24					
- 24					

**Project:** Contractor Storage Area Start Date Boring ID 68TR664 8/7/96 LEA Comm No: Client: Pratt & Whitney East Hartford End Date **SA-SB-25** Location: East Hartford, CT 8/7/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Drill Rig: Sampling Method: Macro core Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: N/M Depth: Hours Easting: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. ecover (X) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1016732 100 Yellowish olive brown, fine SAND, some Silt, moist, 0.0 slightly loose 1016733 100 0.1 As above 1016734 100 0.1 As above 100 1016735 0.0 As above, wet  $\approx 5.5'-6.0'$ 1016736 100 0.0 As above 1016737 100 As above 0.0 12 1016738 50 0.0 Dark red, medium to coarse SAND, little fine Sand, trace(-) Silt, wet, very loose 1016739 50 0.0 As above Bottom of boring at 15.0' 16 20 Borehole backfilled with bentonite chips upon completion. Comments:

Project: Contractor Storage Area
LEA Comm No: 68TR664
Client: Pratt & Whitney East Hartford
Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro core **Groundwater Observations:** 

Depth: N/M Depth:

Start Date 8/8/96 End Date 8/8/96

Boring ID

**SA-SB-26** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

Depth:	A	lt:	Hours	Easting:	
	Sam	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1016674			Dark reddish brown, medium SAND, with fine Sand, some coarse Sand, trace Silt, moist, loose	0.0
† †	10016688			Yellowish brown, fine to medium SAND, trace Silt, moist, loose	0.0
+4	1016689			As above, wet at 5.5' to 6.0'	0.0
<del>}</del>	1016690			As above	0.2
8	1016691			Brown, medium to coarse SAND, with fine Sand, trace Silt, wet, loose	0.1
<del>†</del> +	1016692			As above	0.0
12	1016693			Brown, fine to medium SAND, with Silt, wet, slightly loose	0.0
Ŧ	1016694			As above	0.0
16				Bottom of boring at 15.0'	
20				_	
24				·	
Comments	Roreho	le beckfi	lled with he	entonite chips upon completion.	<u> </u>

Project: Contractor Storage Area Start Date **Boring ID** 8/8/96 LEA Comm No: 68TR664 Client: Pratt & Whitney East Hartford **End Date SA-SB-27** Location: East Hartford, CT 8/8/96 Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA J. Sweeton Drilling Method: Geoprobe Sampling Method: Macro core **Groundwater Observations:** 

At: At:	Hours Hours	Northing: Easting:		
Sample Information		Sample Description		
e Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
41 100		6": Dark reddish brown, medium SAND, with fine Sand, some coarse Sand, trace Silt, trace(-) fine Gravel, moist, loose; 17": Light yellowish red, fine to medium SAND, trace Silt, moist, loose	0.0	
42   100		As above	0.0	
43 100 44		Yellowish brown, fine SAND, little medium Sand, trace Silt, moist, loose; wet at ≈ 5.5-6.0'	0.0 0.0	
69 100		Dark brown, medium to coarse SAND, with fine Sand, little Silt, trace fine Gravel, wet, loose	0.0	
70 50		As above	0.6	
71 50		Yellowish brown, fine to medium SAND, some Silt, wet, loose	0.2	
72 100		Olive grey, fine SAND and medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0	
73 100		Olive grey, fine SAND and SILT, wet, slightly stiff NOTE: Olive grey, CLAY found in tip of cutting shoe at	0.0	
		16.0' Bottom of boring at 15.0'		
ehole	backfilled	backfilled with be	backfilled with bentonite chips upon completion.	

Project: Tank Trailer Storage Area LEA Comm No: 68VC610 art Date Boring ID 11/05/96 Client: Pratt & Whitney **End Date SA-SB-28** Location: East Hartford, CT 11/05/96 Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Geoprobe J. Sweeton Sampling Method: Macr Groundwater Observations: Macro Core Depth: NM Northing: At: Hours Depth: At: Hours Easting:

		<b>AU:</b>	Hours	Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T°	1021159	100		2": Asphalt; 8": Dark brown, medium SAND, with fine Sand, little Silt, moist, loose; 3": Dark red, medium SAND, little fine Sand, moist, loose; 10": Very pale brown, fine	0.0
-	1021160 1021161	100		As Above	0.0
<b>†4</b>	1021162	100		Yellowish brown, medium SAND, some fine Sand, trace Silt, moist, loose	0.0
† † †	1021163	100		As Above	0.0
+8	1021164	100		Strong brown, medium to coarse SAND, little fine Gravel, trace fine Sand, wet, loose	0.0
†	1021165	100		As Above	0.0
12	1021166	100		As Above	0.5
Ī	1021167	100		Strong brown, fine to medium SAND, some Silt, wet, loose	0.0
16				Bottom of Boring at 15.0'	
20					
†	·				
+24					
Comments	Boreho	le backf	illed with be	entonite chips upon completion.	

ert Date Project: Tank Trailer Storage Area **Boring ID** 68VC610 17/06/96 LEA Comm No: Client: Pratt & Whitney East Hartford **End Date SA-SB-29** Location: East Hartford, CT 11/06/96 Logged By: L. Bianchi **Drilling Contractor:** Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Depth: NM Hours Northing: At: **Easting:** At: Hours Depth: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blews Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1021041 100 0.1 3": Fine to coarse GRAVEL augered; 4":Dark red, medium SAND, with fine Sand, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, moist, slightly dense; 16": Strong brown, medium Sand, some fine Sand, little Silt, trace 1021042 1021043 100 0.2 coarse Sand, moist, loose As Above 1021044 100 Brown, medium SAND, some fine Sand, little coarse Sand, 0.1 trace fine Gravel, moist, loose 100 1021045 0.3 As Above 8 1021046 100 0.2 Brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1021047 100 0.0 As Above 12 0.0 1021048 25 Brown, medium to coarse Sand, little fine Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose 1021049 As Above Bottom of Boring at 15.0' On: 1/21/1998 16 20 - 24 Borehole backfilled with bentonite chips upon completion.

Sampling A Groundwat Depth: Ni Depth:	ter Observa M .A	Macro C tions: \t: \t: pple Informat	Hours Hours	Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting: Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
+0	1021060	100		4": Black, fine to medium SAND, some Silt, moist, loose; 3": Dark red, fine to medium SAND, some Silt, moist, loose; 7": Yellowish brown, fine SAND, some Silt, trace medium	0.2
	1021051	100		Sand, moist, loose; 9": Black, fine SAND and SILT, trace medium Sand, moist, slightly stiff, organic  12": As Above; 11": Yellowish brown, fine SAND, some	0.0
+4	1021052	100		Silt, trace medium Sand, moist, loose  Yellowish brown, fine to medium SAND, trace Silt, moist, loose	0.1
+	1021053	100		As Above	8.0
+8	1021054	100		As Above, wet	0.2
1	1021055	100	·	As Above	0.2
12	1021056	50		Yellowish brown, medium to coarse SAND, some fine Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose	0.1
‡	1021057	50		As Above	1.3
-16 				Bottom of Boring at 15.0'	
-24					

Project: Tank Trailer Storage Area 68VC610 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA

Drilling Method: Geoprobe Sampling Method: Macr Groundwater Observations: Depth: NM At: Macro Core

Hours

Start Date 11/06/96 **End Date** 11/06/96

**Boring ID SA-SB-31** 

L. Bianchi

Logged By: L. Bi Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:	7	At:	Hours	Easting:		
<del></del>	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
T °	1021058	100		Strong brown, fine SAND, with Silt, trace medium Sand, moist, loose	0.1	
†	1021059	100		As Above	0.1	
<del>-</del> 4	1021060	100		6": As Above; 17": Brown, fine SAND and SILT, trace medium Sand, moist, slightly stiff	0.1	
‡	1021061	100		As Above; layer of concrete pieces from 7.75-8.0'	0.1	
8	1021062	50		Dark brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose, brick fragments	0.1	
ŧ	1021063	50		Dark brown, fine SAND and SILT, little medium Sand, wet, loose	9.5	
12	1021064	75		Olive brown, fine SAND and medium SAND, little Silt, trace coarse Sand, wet, loose	0.8	
†	1021065	75		Olive grey, fine SAND, some Silt, wet, loose	6.0	
16				Bottom of Boring at 15.0'		
20						
+ + 24						
Commen	its: Boreho	le backfill	led with be	entonite chips upon completion.		

Project: Tank Trailer Storage Area LEA Comm No: 68VC610 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: Geoprobe Macro Core

Start Date 11/07/96 **End Date** 11/07/96

Boring ID

SA-SB-32

L. Bianchi

Logged By: L. B Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Depth:		At:	Hours	Easting:	
	Sar	mple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1021068	100		8": Reddish brown, medium SAND, some fine Sand, trace(+) fine Gravel, moist, loose, 15": Yellowish brown, fine SAND, some Silt, little medium Sand, moist, loose	0.2
Ī	1021069	100		As Above	0.3
+4	1021070	100		6": As Above; 4": Black, fine to medium SAND, little Silt,moist, loose; 13": Strong brown, fine to medium SAND, some Silt, moist, loose	2.0
‡	1021071	100		As Above	0.2
+8	1021072	100		As Above, trace fine Gravel	2.5
I I	1021073	100		Strong brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.4
12	1021074	100		As Above	0.6
Ī	1021075	100		Light olive brown, medium SAND, with fine Sand, trace(+) Silt, trace(-) coarse Sand, wet, loose	0.5
16				Bottom of Boring at 15.0'	
20					
24					
<u>_</u> _t_					
Comment	ts: Boreho	ole backfil	lled with be	entonite chips upon completion.	

Start Date Project: Tank Trailer Storage Area Boring ID 11/07/96 End Date LEA Comm No: 68VC610 Client: Pratt & Whitney SA-SB-33 Location: East Hartford, CT 11/07/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Method: Drilling Foreman: J. Sweeton Geoprobe Drill Rig: Sampling Method: Geoprobe 5400 Macro Core Surface Elevation: Groundwater Observations: Depth: NM Hours Northing: At: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. covery (と) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1021076 1021077 100 0.0 4": Dark reddish brown, fine to medium SAND, little Silt, moist, loose; 19": Yellowish brown, fine SAND, little medium Sand, trace(+) Silt, moist, loose 100 0.0 1021078 As Above 1021079 100 0.0 Strong brown, fine SAND and SILT, trace(-) medium Sand, moist, loose 1021080 100 0.0 Dark yellowish brown, fine to medium SAND, some Silt, little coarse Sand, very moist, loose 50 0.0 1021081 Strong brown, medium SAND, with fine Sand, some coarse Sand, little Silt, trace coarse Gravel, wet, loose 1021082 50 0.0 As Above 12 50 0.0 1021083 As Above Printed On: 1/21/1998 0.0 1021084 50 Strong brown, medium to coarse SAND, little fine Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose Bottom of Boring at 15.0' 16 20

Comments:

Boring

Borehole backfilled with bentonite chips upon completion.

Project: Tank Trailer Storage Area LEA Comm No: 68VC610 Client: Pratt & Whitney Location: East Hartford, CT

**Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe **Macro Core** 

Depth: NM Depth:

At: At:

Hours Hours Start Date 11/07/96 End Date 11/07/96

Boring ID

**SA-SB-34** 

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:	NM		At: At:	Hours	Northing: Easting:	
Elevation/ Depth		Sample Information			Sample Description	
		Sample No.	Recovery (2)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ		1021085	100		6": Dark reddish brown, medium SAND and fine SAND, little Silt, moist, loose; 17": Dark yellowish brown, fine SAND, some Silt, little medium Sand, moist, loose	0.0
<u> </u>		1021086	100		As Above	0.0
+4	-	1021087	100		Light yellowish brown, fine SAND, some Silt, trace medium Sand, moist, loose	1.0
<del> </del>		1021088	100		As Above	0.0
+8	-	1021089	100		Brown, fine to medium SAND, some Silt, wet, loose	0.8
Ī	-	1021090	100		Dark yellowish brown, medium SAND, with coarse Sand, some fine Sand, little fine Gravel, trace Silt, wet, loose	0.7
12	-	1021091	100		17": As Above; 6": Dark yellowish brown, fine to medium SAND, little Silt, trace coarse Sand	0.7
‡	一	1021092	100		As Above	0.6
16					Bottom of Boring at 15.0'	
20						
†						
T 24						
Comme	nts:	Boreho	le backfi	lled with be	entonite chips upon completion.	<u></u>

Project: Tank Trailer Storage Area LEA Comm No: 68VC610 **Start Date Boring ID** 11/07/96 Client: Pratt & Whitney **End Date SA-SB-35** Location: East Hartford, CT 11/07/96 Logged By: L. Bianchi **Drilling Contractor:** LEA Drilling Foreman:
Drill Rig: Geopre Surface Elevation:
Northing:
Easting: J. Sweeton **Drilling Method:** Geoprobe Geoprobe 5400 Sampling Method: Macro Core **Groundwater Observations:** Depth: NM Hours

Depth:	At: Hours			Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
•	1021093	100		8": Dark reddish brown, fine to medium SAND, some Silt, moist, loose; 15": Yellowish brown, fine to medium SAND, some Silt, moist, loose	0.0	
‡	1021094	100		As Above	0.2	
<b>+4</b>	1021095	100		As Above	0.1	
‡	1021096	100		As Above	0.0	
8	1021097	100		Brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0	
<u> </u>	1021098	100		As Above	0.9	
12	1021099	100		18": As Above; 5": Brown, fine SAND and SILT, wet, slightly stiff	0.0	
Ī	1021100	100		As Above	0.0	
16				Bottom of Boring at 15.0'		
20						
-24						
Comments				entonite chips upon completion.		

LEA